

# IMPS 2024



Prague, Czech Republic

*July 16–19, 2024 • Short Courses July 15*



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Dear Attendees and Guests,

We are pleased to welcome you to IMPS 2024, the 89th Annual Meeting of the Psychometric Society, held in the magnificent city of Prague, The Czech Republic. The conference is hosted by the [Czech Academy of Sciences](#), the leading non-university public research institution in the Czech Republic, in partnership with the [Charles University](#), one of the world's oldest universities, the [Prague University of Economics and Business](#), the largest public university in the field of economics and business in the Czech Republic, and the Psychometric Society. The conference takes place at the Prague University of Economics and Business (VŠE), located at nám. Winstona Churchilla 1938/4, 130 00 Praha 3-Žižkov, within 10-minute walk from the main train station (Hlavní nádraží) and only a 20-minute walk to Old Town.

The meeting starts with four parallel short courses on Monday, July 15. A Welcome Reception will be held on July 16th from 6:30 p.m. to 9:00 p.m. at the [Carolinum](#), a national monument and the main seat of Charles University, dating back to the 14th century. On Wednesday, July 17, from 4:45 p.m. to 6:15 p.m., the Psychometric Society cordially invites all meeting attendees to delve into a wide array of psychometric research at our conference poster session event. Authors will be present by their posters to engage in insightful discussions about their research with peers in a relaxed and enjoyable setting that will be held in the Atrium of the RB building, VŠE. Immediately following the poster session, there will be a graduate student dinner mixer at the historic Pivnice Obecní dům (Pilsner Pub Municipal House), a beautiful Art Nouveau restaurant dating back to 1912. As a registered student, you are welcome to join this event for a complimentary dinner and drinks, plus have the opportunity to meet other students from around the world. On Thursday, July 18th, from 4:00 p.m. - 6:30 p.m., join us for a walking tour of Prague's Old Town, which dates back to the 9th century AD. Finally, this year, we are excited to elevate our Closing Conference Banquet Reception

with a cruise up and down the Vltava River, passing through the Smíchov lock twice with spectacular views of the most beautiful Prague monuments illuminated by night – Charles Bridge, National Theatre, Rudolfinum, and Prague Castle.

This year promises to be the largest meeting of IMPS on record, with more than 560 registrants, 400 oral and symposium presentations and nearly 120 posters given by attendees from over 40 countries! We have two distinguished keynote speakers, and six invited speakers, as well as the Dissertation Award presentation, the Early Career Award presentation, and the Career Lifetime Achievement Award presentation. We are looking forward to a vibrant scientific meeting filled with rich intellectual exchange. Best wishes for a very satisfying meeting and thank you for joining us.



David Kaplan  
University of Wisconsin - Madison  
President & Organizing Committee Chair

Patricia Martinková  
Czech Academy of Sciences & Charles University  
Chair of Local Organizing Committee





**Short Course #1:**  
**Structural Equation Models for Categorical Outcomes Using Lavaan**

Monday, July 15, 2024  
9:00 a.m. - 5:00 p.m.  
Location: RB 209

Speaker:  
Dr. Terrence D. Jorgensen



**Short Course #2:**  
**Tools of Machine Learning in Psychometrics**

Monday, July 15, 2024  
9:00 a.m. - 5:00 p.m.  
Location: RB 210

Speakers:  
Dr. Rudolf Debelak &  
Dr. David Goretzko



**Short Course #3:**  
**Planning and Conducting Simulation Studies in R (Part 1)**

Monday, July 15, 2024  
9:30 a.m. – 12:30 p.m.  
Location: RB 211

**Planning and Conducting Simulation Studies in R (Part 2)**

Monday, July 15, 2024  
2:00 p.m. - 5:00 p.m.

Speakers (Part 1 and Part 2):  
Prof. Carolin Strobl &  
Dr. Mirka Henninger



**Short Course #4:**  
**Computerized adaptive testing and multistage testing with R**

Monday, July 15, 2024  
9:30 a.m. - 12:30 p.m.  
Location: RB 212

Speakers:  
Dr. Duanli Yan &  
Dr. Alina A. von Davier





**Prof. Adrian E. Raftery**  
**University of Washington**

Tuesday, July 16  
9:15 a.m. - 10:15 a.m.  
Location: Vencovského aula  
(New Building)

**Keynote Address:**  
Statistical Inference with Model  
Uncertainty



**Prof. Gyeongcheol Cho**  
**The Ohio State University**

Tuesday, July 16  
4:15 p.m. - 5:15 p.m.  
Location: Vencovského aula  
(New Building)

**2024 Dissertation Prize:**  
Constructs May or May Not Be Latent:  
Studies on Two Domains of Structural  
Equation Modeling



**Prof. David Thissen**  
**University of North Carolina at Chapel Hill**

Wednesday, July 17  
10:30 a.m. - 11:30 a.m.  
Location: Vencovského aula (New Building)

**2024 Career Award for Lifetime  
Achievement:**  
A Selective Intellectual History of Differential  
Item Functioning Analysis in Item Response  
Theory and Factorial Invariance in Factor  
Analysis



**Prof. Maarten Marsman**  
**University of Amsterdam**

Wednesday, July 17  
3:45 p.m. - 4:45 p.m.  
Location: Vencovského aula  
(New Building)

**2024 Early Career Award:**  
From Network Psychometrics to  
Bayesian Graphical Modeling



**Prof. David P. MacKinnon**  
**Arizona State University**

Thursday, July 18  
10:45 a.m. - 11:45 a.m.  
Location: Vencovského aula  
(New Building)

**Keynote Speaker:**  
The Investigation of Mediating  
Processes as a Measurement Challenge



**Prof. David Kaplan**  
**University of Wisconsin – Madison**

Friday, July 19  
2:00 p.m. - 3:00 p.m.  
Location: Vencovského aula (New Building)

**Presidential Address:**  
Probabilistic Forecasting with International  
Large-Scale Assessments: Methods for  
Estimating the Pace of Progress to the UN  
Education Sustainable Development Targets



**Dr. Cécile Proust-Lima**  
**University of Bordeaux and Inserm**

Tuesday, July 16  
1:30 p.m. - 2:15 p.m.  
Location: Vencovského aula  
(New Building)

Continuous-time latent variable modeling of measurement scales in health studies: applications to the multiple-system atrophy progression



**Dr. Esther Ulitzsch**  
**University of Oslo**

Tuesday, July 16  
1:30 p.m. - 2:15 p.m.  
Location: RB 101 Auditorium  
(Rajska Building)

Confirmatory mixture models for investigating contextual correlates of response behavior in ecological momentary assessments



**Dr. Patrícia Martinková**  
**Czech Academy of Sciences and Charles University**

Wednesday, July 17  
2:30 p.m. - 3:15 p.m.  
Location: Vencovského aula  
(New Building)

Computational aspects of psychometric methods and beyond



**Prof. Eiko Fried**  
**Leiden University**

Wednesday, July 17  
2:30 p.m. - 3:15 p.m.  
Location: RB 101 Auditorium  
(Rajska Building)

Building bridges between psychometrics island and psychology mainland



**Dr. Maria Bolsinova**  
**Tilburg University**

Friday, July 19  
10:30 a.m. - 11:15 a.m.  
Location: Vencovského aula  
(New Building)

Rating systems for measurement in adaptive learning systems: challenges and solutions



**Prof. Peter F. Halpin**  
**University of North Carolina at Chapel Hill**

Friday, July 19  
10:30 a.m. - 11:15 a.m.  
Location: RB 101 Auditorium  
(Rajska Building)

Using robust scaling to address DIF and DTF in latent variable models

## Group Photo

**Tuesday, July 16 | 3:45 p.m. - 4:15 p.m.**

Location: Atrium of RB Building (nám. Winstona Churchilla 1938/4, 130 00 Praha 3 – Žižkov)

Immediately following the concurrent sessions, please meet in the Atrium RB (Rajska Building) for instructions from the IMPS staff and photographer to coordinate the annual group photo. All attendees are welcome to participate.

The group photo will be posted on the Society website for attendees to download after the conference.

## IMPS 2024 Welcome Reception

**Tuesday, July 16 | 6:30 p.m. - 9:00 p.m.**

Location: **Carolinum** (Ovocný trh 560/5, 110 00 Praha 1 - Staré Město)

We are thrilled to invite you to this year's welcome reception, set in the heart of Prague's Old Town at the oldest complex of Charles University buildings dating to the 14th century, the **Carolinum**.

Enjoy a delightful array of hors d'oeuvres and cocktails, served 6:30 p.m. - 9:00 p.m. located on the ground floor. Don't miss the welcome remarks at 7:30 p.m. in the courtyard. Come to listen to organ and trumpets in the Great Hall on the first floor (6:45 p.m. - 7:10 p.m. and 8:15 p.m. - 8:40 p.m.).

## Poster Session

**Wednesday, July 17 | 4:45 p.m. - 6:15 p.m.**

Location: Atrium of RB Building (nám. Winstona Churchilla 1938/4, 130 00 Praha 3 – Žižkov)

On Wednesday, July 17, from 4:45 p.m. to 6:15 p.m., the Psychometric Society cordially invites all meeting attendees to delve into a wide array of psychometric research at our conference poster session event.

Authors will be present by their posters to engage in insightful discussions about their research with peers in a relaxed and enjoyable setting that will be held in the Atrium of the RB building, Prague University of Economics and Business, immediately following the educational sessions.

Presenters will be standing by their posters from 5:00 p.m. - 6:15 p.m. in this casual and fun setting. Light snacks and beverages will be provided.

[Click here](#) to view the IMPS 2024 list of poster titles and presenters.

Additional information for poster presenters can be found [here](#).

## Graduate Student Dinner Mixer

**Wednesday, July 17 | 7:00 p.m. - 10:00 p.m.**

Location: **Pivnice Obecní dům (Pilsner pub Municipal house)** (náměstí Republiky 1090/ 5 111 21, Praha 1 – Staré Město)

We are delighted to host our annual exclusive graduate student dinner mixer at the historic Pivnice Obecní dům (Pilsner Pub Municipal House).

Immerse yourself in the beauty of Art Nouveau decorations and the rich history of the Plzenska restaurant, which dates back to 1912. As a registered student, you are welcome to join this event for a complimentary dinner and drinks, plus have the opportunity to meet other students from around the world. (An RSVP was requested to attend.)

Student Dinner Mixer will take place immediately following the Poster Session event on Wednesday, July 17 from 7:00 p.m.- 10:00 p.m.



## **IMPS 2024 Walking Group Excursion** **Thursday, July 18 | 4:00 p.m. - 6:45 p.m.**

Location: Atrium of RB Building (nám. Winstona Churchilla 1938/4, 130 00 Praha 3 – Žižkov)

Explore Prague by a Walking City Tour through Prague's Old Town - "Left, right – Prague's on sight!"

Put on comfortable shoes, dress in layers, and dive deep into the charming cobbled maze of the Old Town of Prague. In the company of a seasoned English-speaking tour guide, you will discover not only the selection of the main UNESCO highlights but also peek inside the off-the-beaten-path passages and corners. Listen to stories about personalities and events shaping the City of a Hundred Spires since the 9th century AD.

Enjoy a 2 to 2.5-hour walking tour of the Old Town of Prague with an experienced English-speaking guide; headsets provided. Due to capacity reasons, the tour does not guarantee any visit to the interiors. An RSVP was required.

Plan to meet for the excursion starting in the Atrium RB near the IMPS Registration Desk at the conference site (VŠE).

## **IMPS 2024 Closing Banquet Reception** **(Boat Cruise on Vltava River)**

**Friday, July 19 | 6:00 p.m. - 10:00 p.m.**

Location: **Dvořákovo nábřeží**  
(110 00 Praha 1 - Josefov, Prague  
(50°05'31.5"N14°24'59.8"E))

This year, we are excited to elevate our Closing Conference Banquet Reception with a unique experience following the last day of educational sessions.

This event, a memorable three-hour boat cruise, is included in the attendee conference registration fee. These super-modern, glass-roofed boats offer undisturbed views of Prague's monuments. You can look forward to a unique and unforgettable experience, featuring a stylish buffet dinner where you can choose according to your taste.

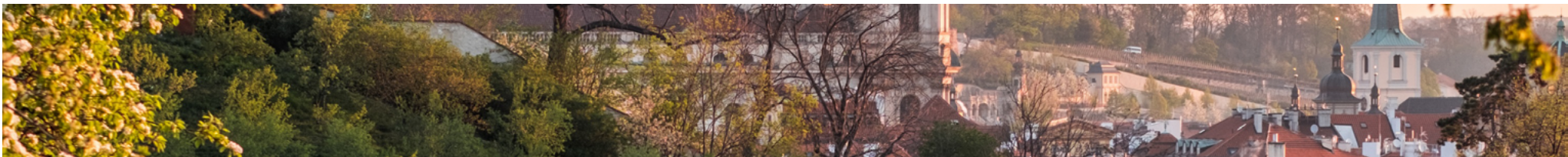
The cruise includes passing through the Smíchov lock twice and by the most beautiful Prague monuments illuminated by night – Charles Bridge, National Theatre, Rudolfinum, and Prague Castle.

The two boats will depart from **Dvořákovo nábřeží**. Transportation to and from the boats is on your own.

Attendees should arrive at the boat landing between 5:45 p.m. - 6:00 p.m. The boats will start welcoming guests to board at 6:00 p.m.

**Important: The two boats will depart at 6:25 p.m. sharp!** Participants, please be sure not to be late, as there will be no late comers to join this event. If an attendee/guest misses the boat, no refunds will be granted.

*Reminder: An RSVP was required, and this is a ticketed event. If an attendee/guest is on the waiting list, please check in with the IMPS Registration Desk at least 24 hours prior to this scheduled IMPS event to verify participation.*





## Conference Venue

This year, IMPS will be held in Prague, Czech Republic. The Educational sessions and the Poster Session will be located at the [Prague University of Economics and Business](#), located at nám. Winstona Churchilla 1938/4, 130 00 Praha 3-Žižkov

For more info about VŠE, visit:

[vse.cz/english/about-vse/profile/campus/](https://vse.cz/english/about-vse/profile/campus/)

For an interactive 3D visit, visit:

[vse.cz/english/about-vse/profile/campus/3d-visit/](https://vse.cz/english/about-vse/profile/campus/3d-visit/)

The opening, keynotes, awards, members meeting and closing talks will take place in the *New Building: Vencovského aula*. The parallel sessions will take place in three different connected buildings referred to as: New Building (NB), Rajska Building (RB), and the Italska Building (IB).

Refer to the map on [page 12](#) for a particular session room, the registration area, the lunch (Menza) area, and/or the refreshment break area (Atrium). Check out an additional map of all events [here](#).

## Special Accommodations

If you require special accommodations and/or have special dietary needs during the meeting, please visit the IMPS Registration Desk located in the Atrium (RB building) on the 1st floor.

## Photography Disclosure

Portions of this event may be videotaped and photographed by the meeting and/or the media. By attending this meeting, you accept the possibility that you might be videotaped or photographed.

## IMPS Registration and Informational Desk

The IMPS Registration and Informational Desk is located in the Rajska Building (RB) at the VSE in the Atrium RB during the Annual Meeting, July 15 to July 19. A representative from The Rees Group (management company supporting the Society) is available to offer attendee assistance during the conference to answer questions, renew memberships, or assist those interested in joining the Psychometric Society. You can also join online [here](#).

## Hours of Operation:

Monday, July 15 | 8:00 a.m. - 5:00 p.m.  
*(Short Course Workshops Day; however, the desk is available to all meeting attendees.)*

Tuesday, July 16 | 8:00 a.m. - 4:30 p.m.

Wednesday, July 17 | 8:00 a.m. - 5:00 p.m.

Thursday, July 18 | 8:00 a.m. - 4:00 p.m.

Friday, July 19 | 8:00 a.m. - 2:00 p.m.

## Name Badge Policy

Meeting name badges are required for entrance to all conference sessions and events.

## Public Transport Tickets

All attendees will be provided **(1)** public transport ticket at the time of picking up their attendee name badges. The tickets may be used from July 16 to July 19 on any bus/tram/subway - even some boats. Google Maps is a great resource to show all transportation schedules and where the trams/buses are located, as well any closures.

For additional transportation information, [click here](#).

## Psychometric Society Social Media

Don't forget to post this week: use **#IMPS2024** on any of the society's social media channels!

[Facebook](#)

[X](#)

[LinkedIn](#)

## VŠE Building Internet (Wi-Fi Access)

Wi-Fi is available onsite complimentary for attendee use in the VSE Building. All attendees will receive a username and passcode for their use during IMPS. Eduroam is also available.





## **Thumb Drives containing the IMPS 2024 Abstract PDF and Meeting Materials**

The Society has placed the IMPS 2024 abstract PDF and meeting materials on thumb drives for “temporary use” on site. These will be available at the IMPS Registration Desk to download to your personal computer if needed.

*The Society conference page or the conference app will also host the IMPS 2024 materials.*

## **Conference Attire**

Business casual attire is suggested for the meeting but is not mandatory. Please note that the meeting takes place during the summer in Prague, Czech Republic. The weather in July is usually warm with an average temperature near 22°C (72-73°F).

This dry sunny weather makes for great sightseeing atmosphere to enjoy the amazing city! We recommend dressing appropriately to the weather, but in layers as the VŠE building is air conditioned.

## **Meeting Refreshment Breaks, and Attendee Lunch Breaks**

Daily the IMPS meeting will provide hosted morning and afternoon refreshments (i.e., beverage service) during the session breaks. Lunch will not be provided by the Society; rather, attendees will be on their own for lunch. The VŠE Menza (Cafeteria) located in the Italska Building (IB) on the 1st and 2nd floors will be available to attendees over

the lunch break and/or attendees may also venture off-site.

To view the Prague Restaurant listing and choose a map view, [click here](#). Please refer to the Program Schedule for the timeline of daily refreshments, lunch break times, and hosted IMPS events.

## **IMPS 2024 Mobile APP**

The Psychometric Society has a mobile app for IMPS 2024. Please download the “**EX ORDO**” app using Apple App Store (iOS) or Google Play Store (Android). Once you open the app, click the Ex Ordo icon to create an account or log in. Then search under the Find Guides tab. Click on the “Have a Passphrase?” button and enter “**imps2024.**” Tap on the guide and then join to access the IMPS 2024 Mobile App.

Complimentary internet will be available at the Conference Venue: Prague University of Economics and Business; however, we suggest you download the app before you travel to the meeting site. Please also be aware of any additional data charges when using the mobile app. Attendees will be able to access the program, abstracts, and more on this year’s app.

The Program Committee is responsible for the scientific program of International Meeting of the Psychometric Society. Its duties include inviting speakers, short-course presenters, chairs, and organizers of invited sessions; reviewing submitted abstracts and proposals for symposia; designing the program; and providing advice and feedback on the program and abstract books. According to the bylaws, the president is the chair of the Program Committee, and the members are the immediate past president, president-elect, secretary, four regular members, and any number of adjunct members. Two members of the Program Committee are appointed by the president every year to serve for two years. In addition, the president may appoint, for a term of up to one year each, any number of adjunct members.

## 2024 Society President & Organizing Committee Chair:

### David Kaplan

University of Wisconsin–Madison  
Madison, WI, United States

## IMPS 2024 Local Committee

### Patrícia Martinková

Local Host Committee Chair  
Institute of Computer Science, Czech Academy of Sciences, Charles University, Prague, Czech Republic

### Filip Habarta

Faculty of Informatics and Statistics, Prague University of Economics and Business

### Adéla Hladká

Institute of Computer Science, Czech Academy of Sciences

### Jaroslav Hlinka

Institute of Computer Science, Czech Academy of Sciences

### Jiří Lukavský

Institute of Psychology, Czech Academy of Sciences  
Charles University

### Lubomír Štěpánek

Faculty of Informatics and Statistics, Prague University of Economics and Business

### Tomáš Urbánek

Institute of Psychology, Czech Academy of Sciences

## IMPS 2024 Program Committee:

- David Kaplan (University of Wisconsin)
- Patrícia Martinková (Czech Academy of Sciences and Charles University)
- Jorge Gonzalez (Pontificia Universidad Catolica de Chile)
- Qiwei Britt He (Georgetown University)
- Nana Kim (University of Minnesota)
- Irini Moustaki (London School of Economics)
- Steffi Pohl (Freie Universitat, Berlin)
- Alexander Robitzsch (Leibniz Institute for Science and Mathematics Education)
- Fan Wallentin (University of Uppsala)
- Gabriel Wallin (Lancaster University)
- Chun Wang (University of Washington)

## THANK YOU

A very extra special thank you to our local organizing committee members **Patrícia Martinková, Filip Habarta, Adéla Hladká, Jaroslav Hlinka, Jiří Lukavský, Lubomír Štěpánek, Tomáš Urbánek**. Many thanks also go to all the local volunteers for all their hard work: Jana Cibulková, Michaela Cichrová, Jana Dlouhá, Kaitlin Griffith, Zuzana Kubešová, David Lacko, Štěpánka Mácová, Filip Martinek, Šimon Martinek, Jan Netík, Iván Leonardo Pérez Cabrera, Lubomír Seif, Benjamin Šimsa, Marie Turčičová, Michaela Vařejková, Ondřej Vít, and Jun Wu.

Thank you to the conference host site this year: the Czech Academy of Sciences, the Prague University of Economics and Business, and the Charles University for their support of IMPS 2024!

***We thank you all for joining us this year at IMPS 2024, and we sincerely hope you have a wonderful visit in Prague, Czech Republic!***

## Psychometric Society

For more information about the Psychometric Society or membership, contact the Psychometric Society Association Management Company:

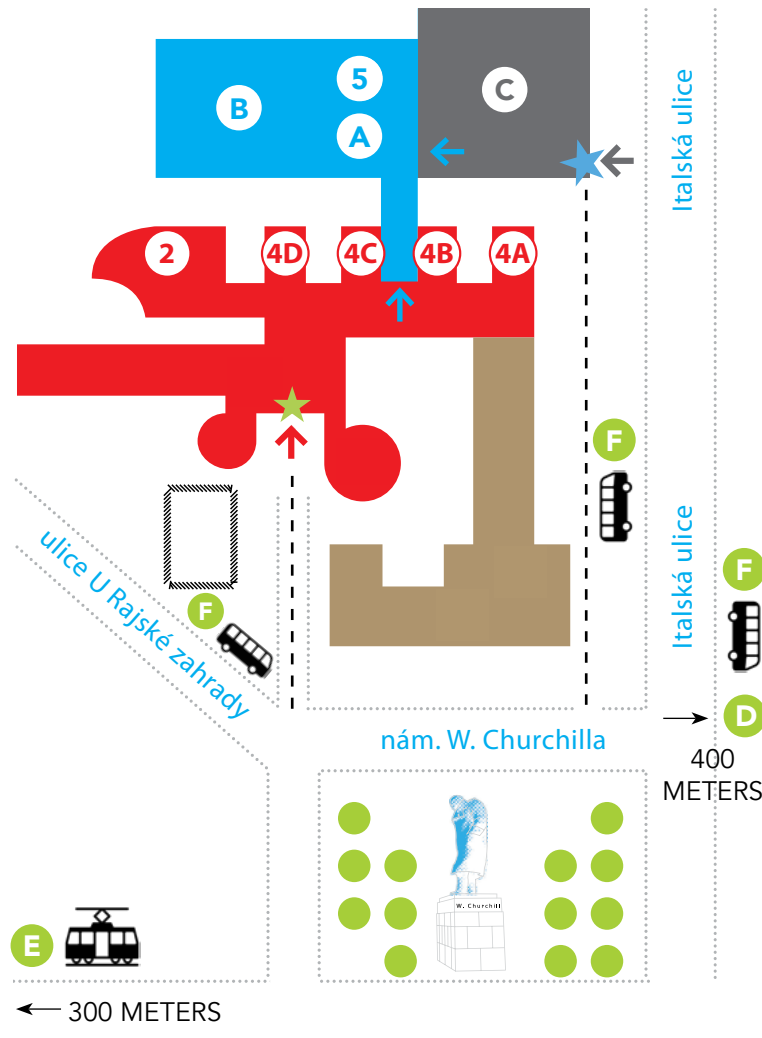
2424 American Lane, Madison, WI 53704

Telephone: 608-268-4712

Fax: 608-333-0310

Email: [info@psychometricsociety.org](mailto:info@psychometricsociety.org)

# Žižkov Campus Map



## NB NEW BUILDING

**GROUND FLOOR:** 2 Vencovského Auditorium 4 Lecture Halls A, B, C, D

## RB RAJSKA BUILDING

**FIRST FLOOR:** 5 RB 101 Auditorium and Lecture Halls RB A Registration B Atrium RB  
**SECOND FLOOR:** • Classrooms RB - 209, 210, 211, 212

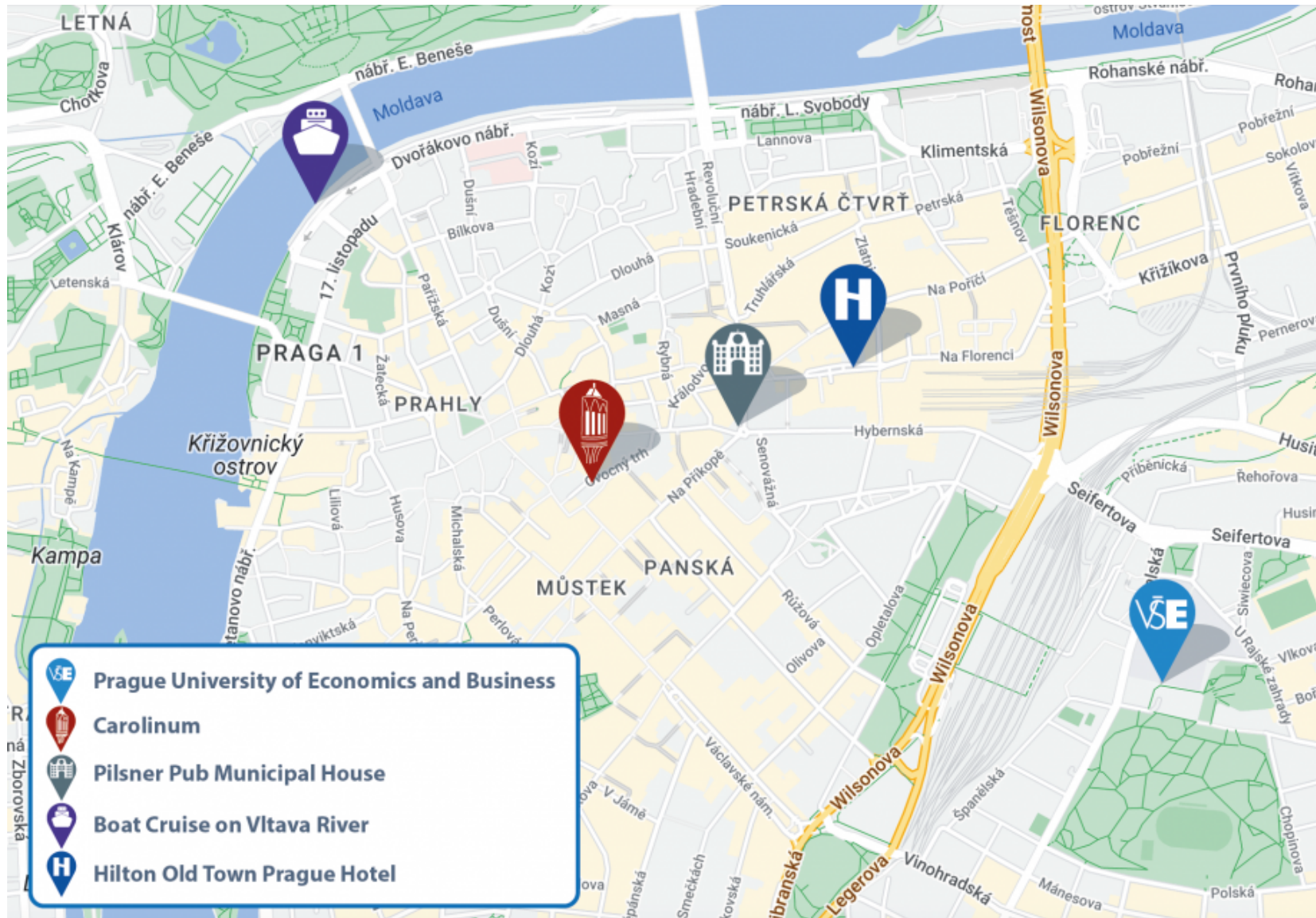
## IB ITALSKA BUILDING

**FIRST AND SECOND FLOOR:** • Canteens C Menza ★ Main Entrance

## PT PUBLIC TRANSPORT

- D The Direction Towards the Main Train Station  
Subway Stop (Hlavní Nádraží/Line C)
- E Tram Stop (Viktoria Žižkov)
- F Bus Stop (Náměstí Winstona Churchilla)
- ★ Entrance/exit to the VŠE Building from outside

# Prague Map



## VŠE Building

Atrium of the RB Building  
nám. Winstona Churchilla 1938/4, 130 00 Praha 3 - Žižkov

**Monday, July 15:**  
8:00 a.m. - 5:00 p.m.

**Tuesday, July 16:**  
8:00 a.m. - 4:30 p.m.

**Wednesday, July 17:**  
8:00 a.m. - 5:00 p.m.

**Thursday, July 18:**  
8:00 a.m. - 4:00 p.m.

**Friday, July 19:**  
8:00 a.m. - 2:00 p.m.

## Monday • July 15

RB 209

**9:00 a.m. - 5:00 p.m.**

**Short Course #1:**

**Structural equation models for categorical outcomes using lavaan**

Speakers: Dr. Terrence D. Jorgensen

9:00 a.m. - 10:30 a.m. • Short Course  
10:30 a.m. - 10:50 a.m. • Refreshment Break  
10:50 a.m. - 12:00 a.m. • Short Course  
12:00 a.m. - 1:30 p.m. • Lunch Break  
1:30 p.m. - 3:00 p.m. • Short Course  
3:00 p.m. - 3:20 p.m. • Refreshment Break  
3:20 p.m. - 5:00 p.m. • Short Course

RB 210

**9:00 a.m. - 5:00 p.m.**

**Short Course #2:**

**Tools of machine learning in psychometrics**

Speakers: Dr. Rudolf Debelak & Dr. David Goretzko

9:00 a.m. - 10:30 a.m. • Short Course  
10:30 a.m. - 10:50 a.m. • Refreshment Break  
10:50 a.m. - 12:00 a.m. • Short Course  
12:00 a.m. - 1:30 p.m. • Lunch Break  
1:30 p.m. - 3:00 p.m. • Short Course  
3:00 p.m. - 3:20 p.m. • Refreshment Break  
3:20 p.m. - 5:00 p.m. • Short Course

RB 211

**Part 1: 9:30 a.m. - 12:30 p.m.**

**Part 2: 2:00 p.m. - 5:00 p.m.**

**Short Course #3:**

**Planning and conducting simulation studies in R**  
Speakers: Prof. Carolin Strobl & Dr. Mirka Henninger

9:30 a.m. - 11:00 a.m. • Short Course (Part 1)  
11:00 a.m. - 11:20 a.m. • Refreshment Break  
11:20 a.m. - 12:30 p.m. • Short Course (Part 1)  
12:30 p.m. - 2:00 p.m. • Lunch (on your own)  
2:00 p.m. - 3:30 p.m. • Short Course (Part 2)  
3:30 p.m. - 3:50 p.m. • Refreshment Break  
3:50 p.m. - 5:00 p.m. • Short Course

RB 212

**9:30 a.m. - 12:30 p.m.**

**Short Course #4:**

**Computerized adaptive testing and multistage testing with R**

Speakers: Dr. Duanli Yan & Dr. Alina A. von Davier

9:30 a.m. - 10:45 a.m. • Short Course  
10:45 a.m. - 11:00 a.m. • Refreshment Break  
11:00 a.m. - 12:30 p.m. • Short Course

9:00 a.m. -  
9:15 a.m.

## Vencovského aula

Welcome: Prof. David Kaplan, Dr. Patrícia Martinková,  
Prof. Jakub Fischer, Dean of the Faculty of Informatics and Statistics, VŠE

9:15 a.m. -  
10:15 a.m.

## Vencovského aula

**Keynote Address: Prof. Adrian E. Raftery**  
**Statistical inference with model uncertainty**  
*Chair: Prof. David Kaplan*

10:15 a.m. -  
10:45 a.m.

## Atrium RB

## Refreshment Break

## Vencovského aula

**Invited Panel: Quality standards for simulation studies in psychometrics**  
*Chair: Prof. Steffi Pohl*

**Short presentations by:**

Richard Feinberg  
Terrence Jorgensen  
Anna Lohmann  
Björn Siepe  
Anders Skrondal  
Carolin Strobl

## RB 101

**Session: Problems in mediation analysis**  
*Chair: Prof. Ying Yuan*

**Bayesian latent class dynamic mediation model**  
Prof. Ying Yuan

**Relative importance analysis in multiple mediator models**  
Dr. Xin Gu

**Assessing heterogeneous treatment effects in Bayesian longitudinal mediation models**  
Ziwei Zhang

**Causal mediation analysis for binary outcomes with asymmetric link functions**  
Yuji Tsubota

## NB A

**Symposium: Asymmetric item response models**  
*Chair: Dr. Jay Verkuilen*  
*Discussant: Dr. Carl Falk*

**Heywood cases in asymmetric IRT**  
Dr. Jay Verkuilen

**Bayesian model averaging of (a)symmetric IRT models in small samples**  
Fabio Setti

**Parsimonious item response theory modeling with different link functions**  
Dr. Wes Bonifay

**Unipolar IRT and vocabulary development**  
Prof. Daniel Bolt

## NB B

**Session: Topics in latent variable estimation**  
*Chair: Dr. Björn Andersson*

**Uncertainty quantification for latent variable selection in high dimensional exploratory factor analysis**  
Ms. Xinyi Liu

**Pairwise stochastic approximation for confirmatory factor analysis of categorical data**  
Dr. Giuseppe Alfonzetti

**Generalized linear latent variable models with nonignorable missing data**  
Dr. Björn Andersson

**A two-stage path analysis approach to model interaction effects for congeneric measures**  
Mr. Gengrui Zhang

**Ability estimation for culturally responsive assessments**  
Dr. Sandip Sinharay

## NB C

**Symposium: Integrating large language models and artificial intelligence in research: network psychometrics, emotion dynamics, and open-ended evaluations**  
*Chair: Dr. Hudson Golino*

**Assessing the quality of AI-generated items: a network psychometric approach**  
Mrs. Lara Russell-Lasalandra

**Decoding emotion dynamics using transformer-based AI models: a novel approach for facial expression recognition in videos using transforEmotion R package**  
Dr. Aleksandar Tomašević

**Improving retrieval-augmented generation and zero-shot classification with exploratory graph analysis**  
Dr. Hudson Golino

**Extracting useful information from open-ended responses using zero-shot classification: an example using student's evaluation of teaching**  
Dr. Mariana Teles

10:45 a.m. -  
12:00 p.m.

## NB D

**Session: Topics in reliability**  
*Chair: Victoria Savalei*

**Maximal reliability coefficients for bifactor models**  
Victoria Savalei

**On the estimation of reliability in knowledge space theory**  
Prof. Andrea Spoto

**Reliability in intensive longitudinal studies: a state-space vs. linear mixed model approach**  
Mr. Tzu-Yao Lin

**Estimating reliability for mixed-format tests**  
Ye Yuan

**Standard errors and null-hypothesis significance tests for reliability coefficients**  
Andries van der Ark

## RB 209

**Symposium: Advancements in structural equation modeling (SEM): model fit, parameter selection, and measurement invariance**  
*Chair: David Goretzko*

**Sensitivity of model fit indices in SEM to underfactoring**  
Dr. Melanie Viola Partsch

**Projection predictive variable selection for Bayesian regularized structural equation modeling**  
Dr. Sara van Erp

**Exploring measurement non-invariance with exploratory factor analysis trees and exploratory graph analysis trees**  
David Goretzko

**Measurement invariance in within-person latent structure for dynamic factor models**  
Dr. Ai Ye

**A causal framework for the comparability of latent variables**  
Philipp Sterner

## RB 210

**Session: Developments in IRT**  
*Chair: Prof. Mark Wilson*

**A new measure and an old measure of person fit**  
Mr. Horacio Rocha

**Detection of local dependence within PCMs through recent L1-penalization approaches**  
Mr. Can Gürer

**Investigating the invariant ordering of clustered items using nonparametric IRT**  
Dr. Letty Koopman

**Integrating observations and test scores: a fixed-random item model**  
Prof. Mark Wilson

## RB 211

**Symposium: New developments in dynamic modeling**  
*Chair: Dr. Sy-Miin Chow*

**Analytic standard errors for latent Gaussian discrete-valued multivariate time series**  
Mr. Christopher Crawford

**Extending fit indices from structural equation models to state space models**  
Mr. Hyungeun Oh

**Reliability in multilevel continuous time modeling**  
Xiaoyue Xiong

**Standard errors and confidence intervals for total, direct, and indirect effects in continuous-time models**  
Dr. Sy-Miin Chow

## RB 212

**Session: Topics in factor analysis**  
*Prof. Amanda Fairchild*

**Hierarchical relation among minimum rank FA, PCA, and prevalent FA**  
Prof. Kohei Adachi

**The partially oblique rotation for exploratory factor analysis**  
Prof. Marcos Jiménez

**Overcoming Heywood cases in factor analysis: a maximum penalized likelihood approach**  
Mr. Philipp Sterzinger

**Does choice of nonnormal data generation algorithm affect simulation results?**  
Prof. Amanda Fairchild

**TUESDAY  
CONTINUED**  
12:00 p.m. -  
1:30 p.m.

VŠE Menza

## Lunch (On Your Own)

1:30 p.m. -  
2:15 p.m.

### Vencovského aula

**Invited Speaker: Dr. Cécile Proust-Lima**  
**Continuous-time latent variable modeling of measurement scales in health studies: applications to the multiple-system atrophy progression**  
*Chair: Prof. Silvia Bianconcini*

### RB 101

**Invited Speaker: Dr. Esther Ulitzsch**  
**Confirmatory mixture models for investigating contextual correlates of response behavior in ecological momentary assessments**  
*Chair: Prof. Carolin Strobl*

2:30 p.m. -  
3:45 p.m.

#### RB 101

**Session: Psychometric applications in psychology**  
*Chair: Dr. Jenn-Yun Tein*

**Decoding intelligence: Investigating the structure of intelligence**  
Ms. Laura Maria Fetz

**An investigation the context effect in the multidimensional forced-choice personality measurement**  
Dr. Kyosuke Bunji

**Dynamic and bidirectional associations between physical-activity, smartphone addiction and state self-esteem**  
Yang Cui

**Predicting onset of child positive and negative affect and behavior**  
Dr. Jenn-Yun Tein

**Developing a framework for testing dyadic associations using pseudodyads and permutations**  
Chiara Carlier

#### NB A

**Session: Topics in categorical data analysis**  
*Chair: Prof. Silvia Bianconcini*

**Ordinal latent space item response models for Likert scale assessments**  
Ludovica De Carolis

**Implications of alternative parameterizations in structural equation models for longitudinal categorical variables**  
Prof. Silvia Bianconcini

**Similarity measures between two sets of binary vectors**  
Prof. Sophie Vanbelle

**Fitting and testing log-linear item response models with known support**  
Dr. David Hessen

#### NB B

**Symposium: Beyond ignorability: advancing with partial identifiability in psychometrics**  
*Chair: Dr. Eduardo Alarcón-Bustamante*

**A partial identifiability approach for analyzing regression functions with missing data in the outcome**  
Dr. Jorge Gonzalez

**On the impact of missing outcomes in predictive capacity of selection tests studies**  
Dr. Inés Varas

**Assessing the marginal effect under partial observability in a selection context**  
Dr. Eduardo Alarcón-Bustamante

#### NB C

**Symposium: Novel advances in psychometric network modeling**  
*Chair: Mr. Xinkai Du*

**From exploratory to confirmatory network psychometrics: fit indices and cutoff values**  
Mr. Xinkai Du

**Integration of Ising model and computer adaptive testing: a simulation**  
Mr. Tuo Liu

**Testing for similarity between idiographic networks: the individual network invariance test (INIT)**  
Ms. Ria Hoekstra

**Bayesian estimation and comparison of idiographic network models**  
Björn Siepe

**Exploratory subgroup detection of psychological networks: assessing the impact of ordinal and skewed data**  
Tatiana Kvetnaya

**Challenges in sample size calculation for psychological networks with missing data**  
Kai Jannik Nehler

#### NB D

**Symposium: Statistical learning approaches to psychometric challenges**  
*Chair: Dr. Dylan Molenaar*

**Autoencoders for amortized joint maximum likelihood estimation of item response theory models**  
Dr. Dylan Molenaar

**One shape may not fit all: detecting differences in trajectories using GAM trees**  
Dr. Marjolein Fokkema

**Affect modeling with wavelet-based time series and statistical learning methods**  
Dr. Sy-Miin Chow

**Handling missing data in variational autoencoder based item response theory**  
Mr. Karel Veldkamp

#### RB 209

**Session: Differential item functioning**  
*Chair: Prof. Ronna Turner*

**Group-specific detection rates when using tree-based differential item functioning methods**  
Prof. Ronna Turner

**A comparison of various DIF detection methods under sparse matrices**  
Ms. Haeju Lee

**Using criterion validity to solve the scale indeterminacy in the context of DIF: an external variable approach**  
Dr. Jesper Tijmstra

**Calculating bias in equating and handling DIF anchor items**  
Prof. Marie Wiberg

#### RB 210

**Symposium: Heterogeneity in repeated measures**  
*Chair: Prof. Timothy Brick*

**Improving Boruta feature selection in multivariate framework**  
Ms. Priyanka Paul

**Are general truths generally true? Accommodating meaningful heterogeneity in dynamic processes**  
Dr. Zachary Fisher

**Making extremely heterogeneous person-specific dynamics so happy together: state space mixtures all the way down**  
Prof. Michael Hunter

**Unsupervised model construction in continuous-time**  
Jonathan Park

#### RB 211

**Session: Topics in longitudinal data analysis**  
*Chair: Dr. Yan Wang*

**Developing cross-classified growth mixture models to account for student mobility**  
Dr. Yan Wang

**A new approach of integrating nonlinear growth modeling on accelerated longitudinal design**  
Ms. HeeJoo Park

**Validation of the intra-individual speed-ability relationship (ISAR) model**  
Augustin Mutak

**Joint modeling: dynamic latent variables, survival outcomes, and MNAR data**  
Ms. Yvette Baurne

#### RB 212

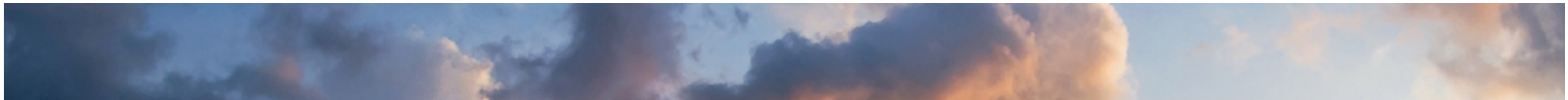
**Symposium: Theory construction methods**  
*Chair: Mr. Jason Nak*

**Text mining systematic reviews: new directions for qualitative research synthesis**  
Mr. Rasoul Norouzi

**AI-assisted theory construction**  
Meike Waaijers

**A theory construction framework for networks**  
Mx. Adam Finnemann

**PsychoModels and PsychoFacts: a platform for formal theory development in psychological science**  
Mr. Jason Nak





Atrium RB

**TUESDAY  
CONTINUED**  
3:45 p.m. -  
4:15 p.m.

### Group Photo

All attendees welcome!

Atrium RB

### Refreshment Break

Vencovského aula

4:15 p.m. -  
5:15 p.m.

Dissertation Award Speaker: Prof. Gyeongcheol Cho

Constructs may or may not be latent: studies on two domains of structural equation modeling

Chair: Prof. Terry Ackerman

Carolinum (Charles University) | Address: Ovocný trh 560/5, 110 00, Praha 1 - Staré Město

### Welcome Reception

**Prof. Milena Králíčková, Rector of the Charles University; Prof. Antonín Jančařík, Dean of the Faculty of Education**

6:30 p.m. -  
9:00 p.m.

**6:30 p.m. - 9:00 p.m.** • Enjoy delightful array of hors d'oeuvres and cocktails in the ground floor.

**7:30 p.m.** • Welcome remarks in the courtyard.

**6:45 p.m. - 7:10 p.m. and 8:15 p.m. - 8:40 p.m.** • Come to listen to organ and trumpets in the Great Hall located on the first floor.



## Vencovského aula

**Invited Panel:**  
Foundational competencies in educational measurement: an NCME task force consensus  
*Chair: Prof. Andrew Ho*

**Andrew Ho (Chair/Presenter)**  
Harvard University

**Ying (Alison) Chen (Presenter)**  
University of Notre Dame

**David Thissen (Presenter)**  
The University of North Carolina at Chapel Hill

**David Torres Irribarra (Presenter)**  
Pontificia Universidad Católica de Chile

**Terry Ackerman (Discussant)**  
University of Iowa

## RB 101

**Symposium: Using process data to understand, assist, and enhance assessment**  
*Chair: Dr. Mengxiao Zhu*

**Linking writing process data to writing quality**  
Hong Jiao

**Explaining performance gaps with problem-solving process data via LCMA**  
Sunbeom Kwon

**Scoring of argumentative writing using keystroke logs and deep learning models**  
Dr. Mengxiao Zhu

**Selecting and analyzing eye movement features for the screening of reading disorders in children**  
Ms. Mingming Hu

## NB A

**Symposium: Latent variable models for complex data structures**  
*Chair: Mariagiulia Matteucci*

**Joint modelling of students' academic performance and dropout**  
Prof. Michela Battauz

**Cheating detection based on response times in CAT**  
Luca Bungaro

**A new factor mixture model to detect aberrant respondents**  
Niccolò Cao

**Latent variable models for panel data: comparison of estimation methods**  
Dr. Lucia Guastadisegni

**Scalable M-estimation for GLLVM**  
Prof. Maria-Pia Victoria-Feser

## NB B

**Symposium: Modeling heterogeneity in response strategies**  
*Chair: Dr. Rudolf Debelak*

**Mixture IRTree models for exploring heterogeneity in response mechanisms**  
Mr. Ömer Emre Can Alagöz

**Investigating heterogeneity in IRTree models for response styles using R**  
Dr. Rudolf Debelak

**Quantifying DIF and DSF effect sizes in partial credit trees**  
Dr. Mirka Henninger

**Mining groups with exceptional response processes in structural equation models**  
Christoph Kiefer

## NB C

**Symposium: Using causal inference theory for designing and analyzing replication studies**  
*Chair: Prof. Steffi Pohl*

**A causal replication framework for systematic replication efforts**  
Peter M. Steiner

**Evaluating coaching supports in teacher education: A replication study approach**  
Qing Liu

**A statistical framework for investigating causes of non-replicability**  
Steffi Pohl

**Causes of non-replicability: Examining assumptions for causal inference**  
Marie-Ann Sengewald

**Fractional factorial replication designs: Implementation and analysis**  
Muwon Kwon

9:00 a.m.  
- 10:15 a.m.

## NB D

**Symposium: Advancements in conducting observational intensive longitudinal studies: Design, data, and analysis.**  
*Chair: Dr. Sigert Ariens*

**Preprocessing ESM data: a framework, tutorial website, R package, and reporting templates**  
Jordan Revul

**Episode-contingent experience-sampling designs for accurate estimates of autoregressive dynamics**  
Dr. Sigert Ariens

**Consequences of missing data types of the multilevel AR(1) model**  
Mr. Benjamin Simsa

**Combining day-to-day dynamics with day-of-week effects and weekly dynamics using seasonal ARMA models**  
Mr. Mohammadhossein Manuel Haqiqatkhah

**A practical guide to estimating the reliability of ambulatory assessment data**  
Dr. Usbrand Leertouwer

## RB 209

**Symposium: Quantitative methods for assessing the impact of physical environment on health**  
*Chair: Dr. Sjoerd Ebisch*

**Predicting mental health through satellite images**  
Dr. Simone Di Plinio

**Assessing recovery after high-intensity anaerobic exercise: a comparison between physiological and psychological measures**  
Dr. Luca Laezza

**Validation of the "restorativeness at work scale" (R@WS)**  
Prof. Margherita Brondino

## RB 210

**Session: Applications of IRT**  
*Chair: Dr. Daniel Dostál*

**Comparing EIRT models for mathematics and ELA across grades 3-8**  
Dr. Magdalen Beiting-Parrish

**Using item response theory to investigate whether rater assessments measure rater quality: is there such a thing as a "correct" rating?**  
Dr. William Belzak

**Selection of eye tracking stimuli via item response theory**  
Benjamin Graves

**Modernizing high school assessments in Albania: exploring item response theory in state matura exams**  
Prof. Eralda Gjika

**Enhancing scoring procedures for the divergent association task: leveraging sequential scoring and IRT paradigm**  
Dr. Daniel Dostál

## RB 211

**Session: Bayesian issues in IRT**  
*Chair: Prof. Seock-Ho Kim*

**A Bayesian approach for joint modeling of rankings and ratings**  
Prof. Elena Eroshva

**Bayesian nonparametric HETOP models for rating data**  
Dr. Giuseppe Mignemi

**Some posterior standard deviations of the graded response model**  
Prof. Seock-Ho Kim

**Estimation of IRT models using NUTS under non-normal distributions**  
Dr. Rehab AlHakmani

**A Bayesian model to represent ambiguity and atypical behaviour in item response theory**  
Mario Angelelli

10:15 a.m.  
- 10:30 a.m.

Atrium RB

## Refreshment Break

10:30 a.m. -  
11:30 a.m.

Vencovského aula

**Career Lifetime Achievement Award: Prof. David Thissen**  
**A selective intellectual history of differential item functioning analysis in item response theory and factorial invariance in factor analysis**  
*Chair: Prof. David Kaplan*

11:30 a.m. -  
1:00 p.m.

VŠE Menza

## Lunch (On Your Own)

WEDNESDAY  
CONTINUED  
1:00 p.m. -  
2:15 p.m.

### Vencovského aula

**Invited Panel:**  
**Paths to the future: A panel discussion  
of the future of SEM**  
*Chair: Prof. Steven Boker*

#### Participants include:

Steven Boker, University of Virginia

Timothy Brick, Pennsylvania State University

Zachary Fisher, Pennsylvania State University

Michael Hunter, Pennsylvania State University

David Kaplan, University of Wisconsin - Madison

Alberto Maydeu-Olivares, University of South Carolina

Mike Neale, Virginia Commonwealth University

Yves Rosseel, University of Ghent

Timo von Oertzen, Thomas Bayes Institute, Berlin

### NB A

**Session: Topics in IRT 1**  
*Chair: Dr. Gabriel Wallin*

**Individual salience weights in the multidimensional  
generalized graded unfolding model**  
Prof. James Roberts

**Item response function variability: a strategy for  
model comparison research**  
Mr. Xing Chen

**Refinement of the matching item response model:  
a shift to generative modeling**  
Mr. Kentaro Fukushima

**An explanatory hyperbolic cosine model with  
categorical covariates**  
Dr. Jue Wang

**A taxonomy of unfolding models**  
Prof. George Engelhard

### NB B

**Symposium: Formal theories of  
psychological phenomena**  
*Chair: Mr. Jesse Boot*

**Improving treatments for mental disorders using  
computational models**  
Dr. Jonas Haslbeck

**From budworms to behaviors: bridging the gap  
between individual psychology and social contexts  
in addiction**  
Mr. Jesse Boot

**Towards a general modeling framework of resource  
competition in cognitive development**  
Ms. Jill de Ron

**Integrating intraindividual and interindividual  
phenomena in psychological theories**  
Prof. Denny Borsboom

### NB C

**Session: Novel approaches to IRT**  
*Chair: Prof. Francis Tuerlinckx*

**Geometry and psychometrics**  
Prof. Francis Tuerlinckx

**Regularized Gaussian variational estimation  
for detecting intersectional differential item  
functioning**  
Mr. He Ren

**Bayesian diagnostic classification using doubly  
bounded visual analogue scaling**  
Ms. Hsin Kao

**Likelihood-free estimation of IRT models in small  
samples: A neural networks approach**  
Dr. Dmitry Belov

**A differential equation framework for the  
derivation of item response functions**  
Prof. Yvonnick Noel

### NB D

**Symposium: Quantifying replication success:  
correspondence measures for replication studies**  
*Chair: Dr. Vivian Wong*

**Implementation of the correspondence test as an  
S-curve**  
Patrick Sheehan

**How best to quantify replication success?**  
Prof. Don van Ravenzwaaij

**A systematic comparison of correspondence  
measures for prospective replications**  
Dennis Kondzic

**Assessing replication success over multiple  
replication study results**  
Dr. Vivian Wong

### RB 209

**Session: Topics in statistical/machine learning**  
*Chair: Dr. Qiwei He*

**Estimating latent variance in variational autoencoders  
parameterization of Rasch models**  
Mr. Denis Federiaki

**Unsupervised detection of random responding for  
Likert-type inventories with varying numbers of  
response categories**  
Mr. Michael John Ilagan

**Predicting missing response with BERT model in  
process data**  
Dr. Qiwei He

**Deep-learning methods for multiple imputation in large-  
scale survey assessments**  
Dr. Usama Ali

**Exploring classic machine learning models and large  
language models in detecting ChatGPT generated  
essays in writing assessments**  
Mr. Haowei Hua

### RB 210

**Session: Topics in clustering**  
*Chair: Dr. Magdalen Beiting-Parrish*

**Ordinal cognitive diagnosis in nonparametric  
framework**  
Prof. Youn Seon Lim

**Sparse convex optimal discriminant clustering**  
Ms. Mayu Hiraishi

**Generalized Bayesian method for diagnostic  
classification models**  
Dr. Kazuhiro Yamaguchi

**Modeling examinee heterogeneity within  
performance classification using generalized low  
rank models**  
Dr. Magdalen Beiting-Parrish

### RB 211

**Session: Statistical topics**  
*Chair: Dr. Katrin Jansen*

**Multivariate location-scale models for meta-analysis**  
Dr. Katrin Jansen

**Bayesian modeling of data with ceiling or floor  
effects**  
Ms. Ruoxuan Li

**Marginal and conditional posterior predictive  
p-values for ordinal models**  
Ms. Ellen Fitzsimmons

**Use of external moment information via externally  
informed models**  
Mr. Martin Jann

**The application of a metaheuristic algorithm when  
developing a test with a pre-defined value of the  
cut-off score**  
Lenka Firtova

### Vencovského aula

**Invited Speaker: Dr. Patrícia Martinková**  
**Computational aspects of psychometric methods and beyond**  
*Chair: Prof. Irini Moustaki*

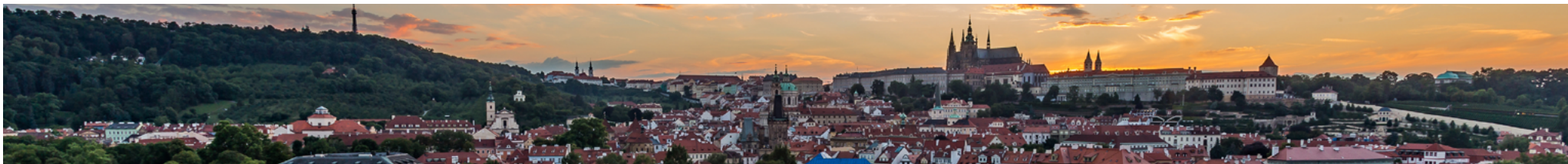
### RB 101

**Invited Speaker: Prof. Eiko Fried**  
**Building bridges between psychometrics island and psychology mainland**  
*Chair: Prof. Denny Borsboom*

3:15 p.m. -  
3:45 p.m.

Atrium RB

## Refreshment Break



**WEDNESDAY  
CONTINUED**  
3:45 p.m. -  
4:45 p.m.

Vencovského aula

**Early Career Award: Prof. Maarten Marsman**  
From network psychometrics to Bayesian graphical modeling  
*Chair: Prof. Daniel Bolt*

4:45 p.m. -  
6:15 p.m.

Atrium RB

### **Poster Session**

Presenters will be available at posters from 5:00 p.m. - 6:15 p.m. [Click here to view the poster list.](#)

7:00 p.m. -  
10:00 p.m.

Pivnice Obecní dům (Pilsner Pub Municipal House) | Address: náměstí Republiky 1090/5, 111 21, Praha 1 – Staré Město

### **Graduate Student Dinner Mixer**

This event is exclusively for graduate students and will be hosted by the Psychometric Society.



## Vencovského aula

**Symposium: Psychometric methods for analysis of wellbeing in the context of digital technologies**  
Chair: *Dr. Patricia Martinková*  
Discussant: *Prof. Steriani Elavsky*

**Dynamic systems modeling of human behaviors to improve proactive healthcare**  
Prof. Misha Pavel

**The reliability of digital trace data in media exposure measures: a multiverse of measurements analysis**  
Dr. Oriol Bosch Jover

**Joint modeling for non-ignorable missingness in intensive longitudinal data**  
Young Won Cho

**Utilizing dynamic structural equation modeling on intensive longitudinal data: the inspiration for digital media use effects research**  
Mr. David Lacko

**Quantification, testing, treatment and interpretation of non-Gaussian dependences in intensive longitudinal data: lessons learned from complex dynamical systems**  
Dr. Jaroslav Hlinka

## RB 101

**Session: Longitudinal latent class and CDM models**  
Chair: *Jonathan Templin*

**Discovery of attribute hierarchies in longitudinal cognitive diagnostic models**  
Dr. Yinghan Chen

**Regularized variational Bayes for Q-matrix inference in cognitive diagnosis models**  
Ms. Yi Jin

**A wrinkle in the IRT theta continuum: exploring DCM classification**  
Jonathan Templin

**Stepwise estimation approaches of complex latent class models: best practices**  
Dr. Zsuzsa Bakk

## NB A

**Symposium: Novel statistical approaches to tackle challenges in intensive longitudinal data**  
Chair: *Marieke Schreuder (Belgium) - KU Leuven*

**Improving the estimation of sample heterogeneity in multivariate dynamic processes through feature selection**  
Ms. Di Jody Zhou

**Investigating emotional recovery using survival analyses of burst ESM data**  
Marieke Schreuder

**Person-specific updating approach to deriving EWMA control limits in case of few in-control observations**  
Dr. Evelien Schat

**Training window selection methods for passive sensing**  
Fridtjof Petersen

## NB B

**Session: Theoretical and applied issues in validity**  
Chair: *Keith Markus*

**Notes toward a grammar of validity arguments**  
Keith Markus

**Integrating IRT and GT via a four-building-block approach**  
Mr. Mingfeng Xue

**Mitigating social desirability using item quadruplets and MIMIC**  
Dr. Felipe Valentini

**Assessing teaching skills: overcoming psychometric hurdles in observational measures**  
Mr. Steffen Erickson

## NB C

**Session: Bayesian stacking, trees, and predictive modeling**  
Chair: *Prof. Sierra Bainter*

**On the improvement of predictive modeling using Bayesian stacking and posterior predictive checking-an example of modeling gender inequality in reading using PISA 2018**  
Dr. Mariana Nold

**Incorporating sparsity into Bayesian stacking procedures**  
Ms. Kjorte Harra

**Bayesian posterior predictive checks to analyze flexible distributional models**  
Ms. Paulina Grekov

**Bayesian treed regression for estimating heterogeneous trajectories of test scores in large-scale educational data**  
Ms. Mingya Huang

**Variable selection with missing data using Bayesian additive regression trees**  
Prof. Sierra Bainter

9:00 a.m. -  
10:15 a.m.

## NB D

**Session: Topics in missing data analysis**  
Chair: *Dr. Joost Van Ginkel*

**How many plausible values?**  
Dr. Paul Jewsbury

**Planned missing data designs for addressing measurement reactivity**  
Mark Himmelstein

**Moderated factor analysis with missing data: a multiple imputation approach**  
Dr. Joost Van Ginkel

**Ising network analysis with missing data**  
Dr. Siliang Zhang

## RB 209

**Session: Topics in causal inference 1**  
Chair: *Prof. Jee-Seon Kim*

**Validation of an SEM multiverse path test**  
Ronald Flores

**Addressing clustered data structures in causal mediation analysis**  
Hanna Kim

**An overarching framework for examining diverse forms of heterogeneous causal effects**  
Prof. Jee-Seon Kim

**Evaluating RKHS mapping effects on functional structural equation models**  
Dr. Michio Yamamoto

**Multilevel regression discontinuity analysis with measurement models**  
Youngjin Han

## RB 210

**Session: Machine learning and deep learning**  
Chair: *Dr. Benjamin Garzón*

**A deep learning approach for a more efficient estimation of rank preserving models**  
Mr. Roberto Faleh

**Modelling computer-based formative assessment data with graph neural networks**  
Dr. Benjamin Garzón

**Residual permutation tests for feature importance in machine learning**  
Dr. Po-Hsien Huang

**Parameterized material recommendation with dual-goal adaptive learning system**  
Dr. Tongxin Zhang

## RB 211

**Session: Bayesian factor analysis and SEM**  
Chair: *Prof. Christian Aßmann*

**Bayesian dynamic mediation model**  
Mr. Chen Qijin

**Bayesian SEM fit indices: now for categorical indicators**  
Dr. Mauricio Garnier-Villarreal

**Bayesian fit measures in approximate measurement invariance in cross-cultural research**  
Dr. Chunhua Cao

**Bayesian confirmatory factor analysis with missing values**  
Prof. Christian Aßmann

**Bayesian joint modal estimation for sparse item factor analysis**  
Dr. Kensuke Okada

10:15 a.m.  
- 10:45 a.m.

Atrium RB

## Refreshment Break

10:45 a.m. -  
11:45 a.m.

Vencovského aula

**Keynote Speaker: Prof. David MacKinnon**  
**The investigation of mediating processes as a measurement challenge**  
Chair: *Prof. David Kaplan*

## Lunch (On Your Own)

### Vencovského aula

**Symposium: Item response theory and health outcomes: novel applications and methods**  
*Chair: Dr. Leah Feuerstahler*

**Latent variable modeling for unipolar constructs in health sciences**

Dr. Edward Ip

**The application of IRT to traumatic brain injury research: some promise and challenges**

Dr. Brooke Magnus

**Mixture item response theory to quantify cumulative environmental exposure burden**

Dr. Shelley Liu

**An explanatory IRT model for toxicity-weighted environmental exposure burden scores**

Dr. Leah Feuerstahler

### RB 101

**Session: Problems in cognitive diagnostic modeling**  
*Chair: Dr. Pablo Nájera*

**A psychometric analysis on associations between coding concepts and item difficulty**

Chen Li

**Evaluating methods for assessing model fit in diagnostic classification models**

Jake Thompson

**A general diagnostic modeling framework for forced-choice items**

Dr. Pablo Nájera

**Correcting validity coefficients with aggregated data in cognitive diagnosis models**

Dr. Rodrigo Schames Kreitchmann

**A generalized Q-matrix estimation method for nonparametric cognitive diagnosis**

Mrs. Jia Li

### NB A

**Session: Topics in factor analysis**  
*Chair: Dr. Alexis Georgeson*

**Covariate-adjusted generalized factor analysis with application to testing fairness**

Jing Ouyang

**A factor analytic analogue for summed score EAPs**

Dr. Alexis Georgeson

**Comparing item selection in regularized factor analysis and network models**

Ms. Jiaying Chen

**Multilevel factor mixture modeling: a simulation study**

Dr. Eunsook Kim

**Pseudo-factor analysis of embedding similarity matrices**

Nigel Guenole

### NB B

**Symposium: Recent advances in (non-)Bayesian informative hypothesis evaluation**  
*Chair: Dr. Rebecca Kuiper*

**Applying the informative hypothesis approach to media effects**

Ms. Nikol Kvardova

**Theory-based hypothesis evaluation using information criteria**

Dr. Rebecca Kuiper

**Bayesian evaluation of N=1 studies**

Prof. Herbert Hoijtink

**Making nomological networks confirmatory using GORICA**

Mr. Petr Palisek

**Benchmarks and cut-off norms: necessary evils or questionable science inducers?**

Lars de Vreugd

**Emotions under control? The relationship between emotionality and cognitive control reverse if event-unpleasantness is increased within individuals**

Mr. Levente Rónai

### NB C

**Session: Topics in intensive longitudinal data analysis**  
*Chair: Conor Lacey*

**Extending the time-varying temporal network to allow changing contemporaneous connections**

Simran Johal

**Individual versus group-level analysis techniques for intensive longitudinal data: a primer**

Conor Lacey

**Investigation of detrending methods for intensive longitudinal dyadic data analysis**

Yue Xiao

**Estimating actor and partner effects from intensive longitudinal dyadic data with large amounts of missing values: estimation performance of the longitudinal actor-partner interdependence model and possible alternatives**

Yuan Yuan Ji

### NB D

**Symposium: Using structural equation models to analyze round-robin data from social networks**  
*Chair: Dr. Terrence Jorgensen*

**Multiple constructs multiple indicators social relations modes with and without roles**

Dr. Fridtjof W. Nussbeck

**A correlated traits correlated (methods - 1) multitrait-multimethod model for augmented round-robin data**

Dr. David Jendryczko

**Toward a general multivariate framework for social network data: An overview of estimation methods for structural social-relations models**

Dr. Terrence Jorgensen

**Incorporating level-specific covariates in structural equation models of social-network data**

Ms. Aditi Manoj Bhangale

### RB 209

**Session: Differential item functioning**  
*Chair: Dr. Heining Cham*

**Detecting non-uniform differential item functioning in latent variable interaction framework**

Dr. Heining Cham

**Extending the cluster approach to differential item functioning in polytomous items**

Mr. Martijn Schoenmakers

**Advancing polytomous DIF detection with the residual DIF framework**

Dr. Hwanggyu Lim

**Assessing differential step functioning for polytomous items with scale purification**

Dr. Ya-Hui Su

### RB 210

**Symposium: Psychometric innovations for adaptive learning systems**  
*Chair: Dr. Maria Bolsinova*

**A dynamic k value approach for the Elo rating system**

Hanke Vermeiren

**Curious interactions between learners and Elo rating systems**

Dr. Abe Hofman

**Tracking changing abilities in adaptive learning system using response times**

Bence Gergely

**Modeling individual differences in error-induced quitting**

Ms. Annie Johansson

### RB 211

**Session: Graduate Student Research Competition**  
*Chair: Prof. Silvia Cagnone*

Presentations by the following teams:

**Integrating Generative AIs into Computerized Adaptive Testing**

Diego F. Graña, Diego Iglesias, Marcos Jiménez and Nuria Real-Brioso, Faculty of Psychology, Universidad Autónoma de Madrid

**A Battle of Wits: Comparing the Capabilities of Generative AI and Humans in Scale Development**

Meltem Ozcan, Winnie W.-Y. Tse, Gengrui Zhang, Department of Psychology, University of Southern California

**Expanding the Scope of Data Sources in Psychometric Research by Embedding Individual Records using Generative AI**

Shihao Wu, Chengyu Cui, Bo Meng, Jing Ouyang, and Zhiwei Xu, Department of Statistics, University of Michigan



THURSDAY  
CONTINUED  
2:45 p.m. -  
4:00 p.m.

Vencovského aula

**Cito Special Symposium:  
The future of educational measurement:  
Integrating AI and psychometrics**  
Chair: Dr. Joost Kruis

**Safeguarding the human element in  
educational measurement: why we need  
qualitative methods for validation in the  
quantitative era of AI**  
Mr. Max van Haastrecht

**Harmonizing ADHD scores by using  
different methods (linear equating, Kernel  
Equating, IRT, machine learning)**  
Miljan Jovic

**Using natural language processing to score  
[short] answers to open-ended items**  
Dr. Joost Kruis

**Psychometrics as the origin of statistics as  
the origin of data science**  
Dr. Ivailo Partchev

RB 101

**Session: Dimensionality and IRT**  
Chair: Dr. Chia-Wen Chen

**Beyond confirmatory: dimensionality  
assessment in forced-choice data**  
Mr. Diego Graña

**Semi-parametric item factor analysis**  
Dr. Camilo Cardenas

**Score-Based Tests for Parameter  
Instability in Ordinal Factor Analysis  
Models**  
Franz Classe

**A bifactor Thurstonian IRT Model  
for multidimensional forced-choice  
questionnaires with negative wording  
effect**  
Dr. Chia-Wen Chen

NB A

**Session: Priors in Bayesian models**  
Chair: Dr. Josine Verhagen

**Inferring mastery of math skills over  
time using power priors**  
Dr. Josine Verhagen

**On the prior effective sample size of  
normal and Dirichlet priors for threshold  
parameters**  
Dr. Noah Padgett

**Bayesian power priors in latent variable  
models with small samples**  
Dr. Lihan Chen

**Zero-and-one-inflated generalized  
Dirichlet distribution to estimate the  
order of resource allocation**  
Mr. Taisei Wakai

NB B

**Session: Topics in causal inference 2**  
Chair: Mr. Graham Buhman

**Prognostic score methods for the estimation of  
average causal effects**  
Mrs. Chamika Porage

**Monotonicity matters: evaluating heterogeneous  
treatment effect estimation via nonparametric  
regression tree methods**  
Mr. Graham Buhman

**Disentangling person-dependent and item-  
dependent causal effects: applications of item  
response theory to the estimation of treatment  
effect heterogeneity**  
Mr. Joshua Gilbert

**Strengthening causal claims from educational  
studies: a sensitivity analysis approach**  
Ms. Elaine Chiu

**Estimating the causal impact of test changes  
on test scores in continuous high-stakes  
assessments**  
Dr. Manqian Liao

NB C

**Session: Psychometric applications  
to health**  
Chair: Mr. Nico Remmert

**Assessing clinical avoidance behavior: a  
testing framework using process data**  
Mr. Nico Remmert

**Investigating measurement invariance of  
the simplified beck depression inventory  
using rating scale tree model**  
Mr. Farshad Effatpanah

**The patient activation measure read  
aloud in a clinical setting**  
Ms. Magdalena Holter

NB D

**Session: More on AI and machine learning**  
Chair: Prof. Elise Dusseldorp

**Meta-regression trees: three innovations**  
Prof. Elise Dusseldorp

**Introducing multilevel lasso models into  
value-added assessment for variable  
selection**  
Ms. Qing Zeng

**AI-based AIG for mathematics within a  
learning engineering framework**  
Prof. Ji Hoon Ryoo

**Automating psychometrics: AI - powered  
item generation**  
Dr. Karel Recka

**An introduction to anytime-valid inference  
in psychology**  
Mark Van Lokeren

RB 209

**Session: Psychometric applications to  
cognition and learning**  
Chair: Dr. Sunmee Kim

**Stop using d' and start using d\_a :  
evidence from empirical data on how  
to measure sensitivity in recognition  
memory**  
Prof. Adva Levi

**Intersectional approaches to  
understanding heterogeneity of  
cognition aging: a data-driven  
exploration**  
Dr. Sunmee Kim

**Score development for the NIH infant  
and toddler toolbox gaze**  
Dr. Lihua Yao

RB 210

**Session: Response processes and test  
taking behaviors**  
Chair: Dr. Jing Lu

**Detecting test speededness based on Schwarz  
information criterion**  
Dr. Jing Lu

**Accounting for rapid guessing in competence  
estimation in large-scale assessments**  
Eva Zink

**Enhancing tree-based models for detecting test-  
taking behaviors: integrating response time and  
process variables**  
Ms. Tamlyn Lahoud

**Bayesian factor mixture modeling with response  
time for detecting careless respondents**  
Ms. Lijin Zhang

**Modeling careless responding in experience  
sampling data**  
Milla Pihtijämäki

RB 211

**Session: Topics in large-scale  
assessments**  
Chair: Dr. Hua-Hua Chang

**Comparing large-scale assessments with  
the total survey error approach**  
Dr. Peter van Rijn

**New standards for validating AI-based  
educational assessments**  
Dr. Hua-Hua Chang

**The standard error of equated test  
scores**  
Prof. Wim J. van der Linden

**Examining the performance of hybrid  
and traditional multistage tests under  
different conditions**  
Dr. Cagla Alpayar

RB 212

**Session: Topics in IRT 2**  
Chair: Prof. Ruggero Bellio

**Importance: A new item parameter that cannot  
be revealed by single stimulus data**  
Dr. Saifir Yousofi

**Simulation-based uncertainty estimates for  
and extension of effective difficulty and  
discrimination measures for binary item response  
models**  
Mr. Peter Johnson

**Bias-reduced fixed effects estimation of two-  
parameter logistic models**  
Prof. Ruggero Bellio

**Should we trust model flexibility? Investigating  
alternative polytomous IRT models**  
Dr. Giovanni Bruno

**Bit scales for item response theory models**  
Mr. Joakim Wallmark

4:00 p.m. -  
4:15 p.m.

Atrium RB

Refreshment Break

4:00 p.m. -  
6:45 p.m.

Atrium RB

[IMPS 2024 Group Excursion City Walking Tour](#)



### Vencovského aula

**ETS Special Symposium: Psychometric innovations in large-scale survey assessments**  
Chair: Dr. Duanli Yan

**Variable selection techniques for imputation models**  
Dr. Peter van Rijn

**Imputation models for special subpopulations**  
Dr. Usama Ali

**Linking error in large-scale assessments**  
Dr. Paul Jewsbury

### RB 101

**Symposium: From traditional to modern methods for the analysis of multi-item measurements**  
Chair: Dr. Lubomír Štěpánek and Dr. Adéla Hladká  
Discussant: Dr. Gabriel Wallin

**Robust inference for traditional item discrimination index**  
Dr. Lubomír Štěpánek

**Innovative iterative algorithms for estimation of item functioning**  
Dr. Adéla Hladká

**Three and four-parameter IRT model in factor analysis framework**  
Ján Pavlech

**Fine-tuning language models to predict item difficulty from wording**  
Jan Netik

**On the identifiability and structural learning of R-RUM models**  
Iván Pérez

### NB A

**Session: Topics in IRT 3**  
Chair: Dr. Ben Domingue

**Combining item responses and paired comparisons in small sample contexts**  
Dr. Nathan Zoanetti

**Modeling process data with explanatory item response models**  
Dr. Susanne Frick

**A mixture-IRT model for careless responding with flexible assumptions**  
Irina Uglanova

**The item response warehouse (IRW)**  
Dr. Ben Domingue

**Standardized person-fit statistics for tests with polytomous items**  
Prof. Kylie Gorney

### NB B

**Session: Topics in adaptive testing**  
Chair: Dr. Aron Fink

**Adaptively regulated interim theta bounds for optimizing CAT item selection**  
Dr. Sung-Hyuck Lee

**Non-parametric item response theory for computerized adaptive tests**  
Laura Aspirot

**Computerized adaptive testing with continuous items: Improving the efficiency of noncognitive assessments**  
Mr. Wei-Hung Yang

**Addressing calibration error in multidimensional adaptive testing: A Bayesian approach**  
Dr. Aron Fink

**Evaluating models for item cloning variation under multistage testing**  
Dr. Won-Chan Lee

### NB C

**Session: Longitudinal designs and methods**  
Chair: Dr. Charles Driver

**Continuous-time modeling of bivariate developmental trajectories in accelerated longitudinal designs**  
Ms. Nuria Real-Brioso

**More on cross-lagged effects – (mis) specification in dynamic systems models**  
Dr. Charles Driver

**SimDE app: simulating and visualizing formal theories using differential equations**  
Rohit Batra

**Integral dimensionality reduction in models that include nonlinear random coefficients**  
Dr. Shelley Blozis

9:00 a.m. - 10:15 a.m.

### NB D

**Symposium: New insights in longitudinal data and mediation analysis**  
Chair: Prof. Zhiyong Zhang

**Modeling dynamic components in intensive longitudinal data analysis: a comparison of one-step vs. two-step approaches**  
Dr. Peggy Wang

**Quantile longitudinal data modeling with missing data**  
Dr. Xin Tong

**Analysis of mediation direction change between manifest and latent variable modeling**  
Dr. Ke-Hai Yuan

**Mediation analysis with text data**  
Prof. Zhiyong Zhang

**A longitudinal study of the impact of living style on the health and mortality risk of the elderly**  
Prof. Yong Wen

### RB 209

**Session: Classification methods**  
Chair: Dr. Liqun Yin

**Constructing language models to predict massive student sentiment toward universities**  
Tonghui Xu

**Advancing enemy item detection using transformer-augmented NLP**  
Dr. Paulius Satkus

**Improving context scale interpretation using latent class analysis for cut scores**  
Dr. Liqun Yin

**Blueprinting the future: automatic item categorization using hierarchical zero-shot and few-shot classifiers**  
Dr. Ting Wang

### RB 210

**Session: Psychometric applications to education**  
Chair: Dr. Diego Carrasco

**Multilevel synthesis of composite cross-classified event scores as a psychometric approach for EdTech**  
Dr. Dmitry Abbakumov

**Latent logistic regression analysis of background characteristics on digital literacy**  
Dr. Qianru Liang

**Accounting for ceiling effects on polytomous responses. An illustration with gender equality endorsement.**  
Dr. Diego Carrasco

**Score-difference-at-risk (SDaR): using risk metrics to anticipate negative impact.**  
Dr. Sergio Arana

### RB 211

**Session: Topics in machine learning**  
Chair: Dr. Youmi Suk

**An interpretable cognitive diagnostic model based on XGBoost and shap**  
Ms. Chang Nie

**Understanding of measurement invariance within a SEMtree framework**  
Mr. YeongJin Jo

**Using conditional tabular generative adversarial networks for process data generation in Monte Carlo simulation studies**  
Dr. Youmi Suk

**Unveiling competencies for efficient AI utilization: a psychometric perspective**  
Ms. Bhavana Srirangam

10:15 a.m. - 10:30 a.m.

Atrium RB

## Refreshment Break

10:30 a.m. - 11:15 a.m.

### Vencovského aula

**Invited Speaker: Dr. Maria Bolsinova**  
**Rating systems for measurement in adaptive learning systems: challenges and solutions**  
Chair: Prof. Maarten Marsman

### RB 101

**Invited Speaker: Prof. Peter Halpin**  
**Using robust scaling to address DIF and DTF in latent variable models**  
Chair: Prof. David Thissen



FRIDAY  
CONTINUED  
11:30 a.m. -  
12:45 p.m.

### RB 101

**Symposium: User beware - emerging evidence that survey item calibration and scoring decisions can introduce substantial bias into growth mixture model results**

*Chair: Dr. Veronica Cole*

**Latent trajectory or measurement artifact? Understanding the effects of unmodeled response styles on growth mixture modeling results.**  
Dr. Veronica Cole

**Why producing unbiased survey scores for use in growth mixture models is almost impossible: a few illustrations**  
Dr. James Soland

**Investigating the sensitivity of growth mixture model results to conditioning scoring decisions on time-invariant covariates**  
Stephen Tavares

### NB A

**Session: Applications of longitudinal data analysis**  
*Chair: Dr. Soojin Park*

**Comparing trajectories of school-to-work transitions using latent transition analysis**  
Dr. Tomasz Żóttak

**Identifying subject heterogeneity in longitudinal brain connectivity patterns with clusterwise-IVA**  
Dr. Tom Wilderjans

**Ability tracking for intelligent tutoring systems**  
Mr. Karl Sigfrid

**Decomposing social disparities through various interventions: incorporating simulation-based sensitivity analysis**  
Dr. Soojin Park

### NB B

**Session: Topics in structural equation modeling**  
*Chair: Dr. Graham Riftenbark*

**Recursive partitioning of continuous-time structural equation models**  
Dr. Pablo F. Cánchez

**Evaluating multigroup structural equation modeling with exploratory measurement models**  
Ms. Jennifer Dang Guay

**Small sample estimation of structural equation models: a comparison of alternative estimation approaches**  
Dr. Graham Riftenbark

### NB C

**Session: AI and machine learning in educational settings**  
*Chair: Dr. Cheng Liu*

**Investigating text complexity indices in predicting SME-rated passage grade**  
Dr. Ann Hu

**Unreliability and historical bias and their relationship to test fairness and equity**  
Dr. Cheng Liu

**Exploring the frontier of fairness: The significance of outliers in algorithmic bias and equity**  
Dr. Secil Ugurlu

### NB D

**Symposium: Methodological advances in Bayesian graphical modeling**  
*Chair: Ms. Sara Keetelaar*

**Testing conditional independence in psychometric networks**  
Nikola Sekulovski

**How robust are psychometric networks?**  
Ms. Karoline Huth

**Are psychological networks sparse or dense?**  
Ms. Sara Keetelaar

**Dynamic conditional networks for intensive repeated data**  
Prof. Philippe Rast

### RB 209

**Session: Estimation methods**  
*Chair: Dr. Yeh-Tai Chou*

**Applying Fisher's method of scoring to estimate ability parameters of the multi-unidimensional pairwise-preference model**  
Dr. Yeh-Tai Chou

**Estimating hierarchical drift diffusion models: a comparison of methods**  
Ms. Yufei Wu

**Dealing with small-sample biases in AR(1) models: methods for psychological research**  
Zhiwei Dou

**Empirical bias-reducing adjustments for item response theory (IRT) models**  
Dr. Haziq Jamil

**Estimating high-dimensional latent variable models via minibatch variance-reduced stochastic optimisation**  
Mr. Motonori Oka

### RB 210

**Session: Topics in IRT 4**  
*Chair: Dr. Merve Sarac*

**Item compromise and preknowledge detection using response time and distractors**  
Dr. Merve Sarac

**Exploratory higher-ordered diagnostic modeling framework for general response types**  
Ms. Jia Liu

**Using the multidimensional nominal response model to model faking: the importance of item desirability characteristics**  
Mr. Timo Seitz

**A multivariate logit-function for modeling continuous bounded interval responses**  
Mr. Matthias Kloft

**Respondent-level change-point detection in educational and psychological testing**  
Dr. Gabriel Wallin

### RB 211

**Session: Psychometric applications to health outcomes**  
*Chair: Dr. Carl Falk*

**Researching response-scale format effects in questionnaires: using the height inventory**  
Dr. Hynek Cigler

**Bot detection: simulations and application in people-centered health measurement surveys**  
Dr. Carl Falk

**Cognitive psychometric approach for modeling cognitive aging across ambulatory assessments**  
Sharon Kim

**Do psychometrics matter? The effects of psychometrics on depression trial outcomes**  
Dr. David Byrne



FRIDAY  
CONTINUED  
12:45 p.m. -  
2:00 p.m.

VŠE Menza

## Lunch (On Your Own)

2:00 p.m. -  
3:00 p.m.

Vencovského aula

**Presidential Address: Prof. David Kaplan**  
**Probabilistic forecasting with international large-scale assessments: methods for estimating the pace of progress to the United Nations education sustainable development targets**  
*Chair: Prof. Denny Borsboom*

3:00 p.m. -  
3:30 p.m.

Vencovského aula

## Members Meeting

3:30 p.m. -  
4:30 p.m.

Vencovského aula

## Awards and Closing Ceremony

6:00 p.m. -  
10:00 p.m.

Prague Boats | Address: Dvořákovo nábř., 110 00 Praha 1 - Josefov, Prague

## Closing Banquet Reception & Boat Cruise



- Thank you to the **Prague Convention Bureau** for the images used in this document. -

## Special thank you to our IMPS 2024 Sponsors and Exhibitors this year!

The IMPS 2024 Exhibitors and Sponsors will be located in the Atrium RB of the VŠE Building.  
All IMPS refreshment breaks will be located in this area.

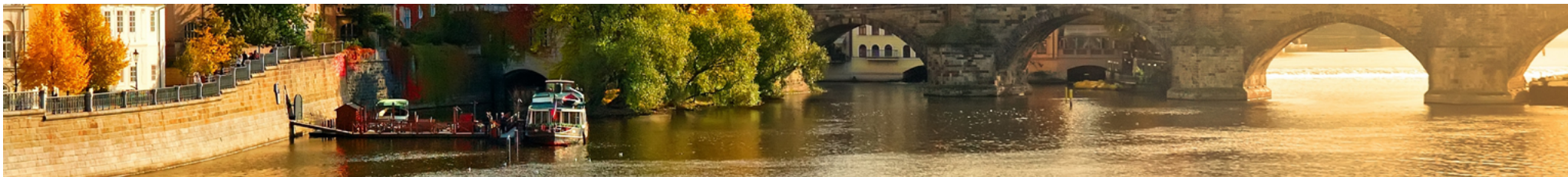
Please plan time to and visit with these companies and organizations during the week of IMPS 2024!

### EXHIBIT AREA HOURS

Tuesday, July 16 | 10:00 a.m. - 4:15 p.m.  
Wednesday, July 17 | 10:00 a.m. - 3:45 p.m.  
Thursday, July 18 | 10:00 a.m. - 4:15 p.m.  
Friday, July 19 | 8:30 a.m. - 10:30 a.m.



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