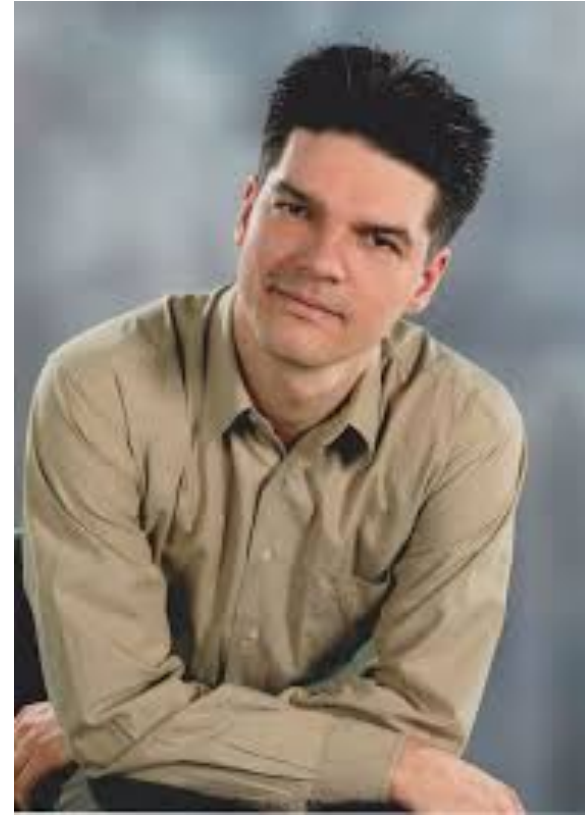


EPIT Spring School on Homotopy Type Theory



Lectures



- Introduction to Homotopy Type Theory (HoTT)
Andrej Bauer, University of Ljubljana, Slovenia

- The Coq-HoTT library
Bas Spitters, Aarhus University, Denmark



- Models of Homotopy Type Theory
Christian Sattler, University of Gothenburg, Sweden



- The Arend Proof Assistant
Valery Isaev, JetBrains Research



Lectures



- Cubical Type Theory and Cubical Agda
Anders Mörtberg, Stockholm University, Sweden

- Synthetic Homotopy Theory
Egbert Rijke, University of Ljubljana, Slovenia



- Directed Homotopy Type Theory
Paige North, University of Pennsylvania, USA

Organization

- **Mix** of Zoom and Discord
- Lectures on Zoom + “on paper” exercise sessions in breakout rooms (Andrej, Christian and Egbert). Raise your hand to ask a question, or use the chat, we will relay them.
- Lectures will be available on Youtube
- Q&A text and video channels for each day on Discord (no limit in time, for our fellow UTC+12 students).
- Lecturers and TAs are a click away on Discord during the whole school (@Lecturers, @Assistants)
- Discord study rooms for (≤ 6 students groups) for the Coq-HoTT and Cubical Agda exercise sessions.
- To get a certificate of attendance, simply submit to us a record of the exercises you did at the end of the school. We will remind you at the end of the school.

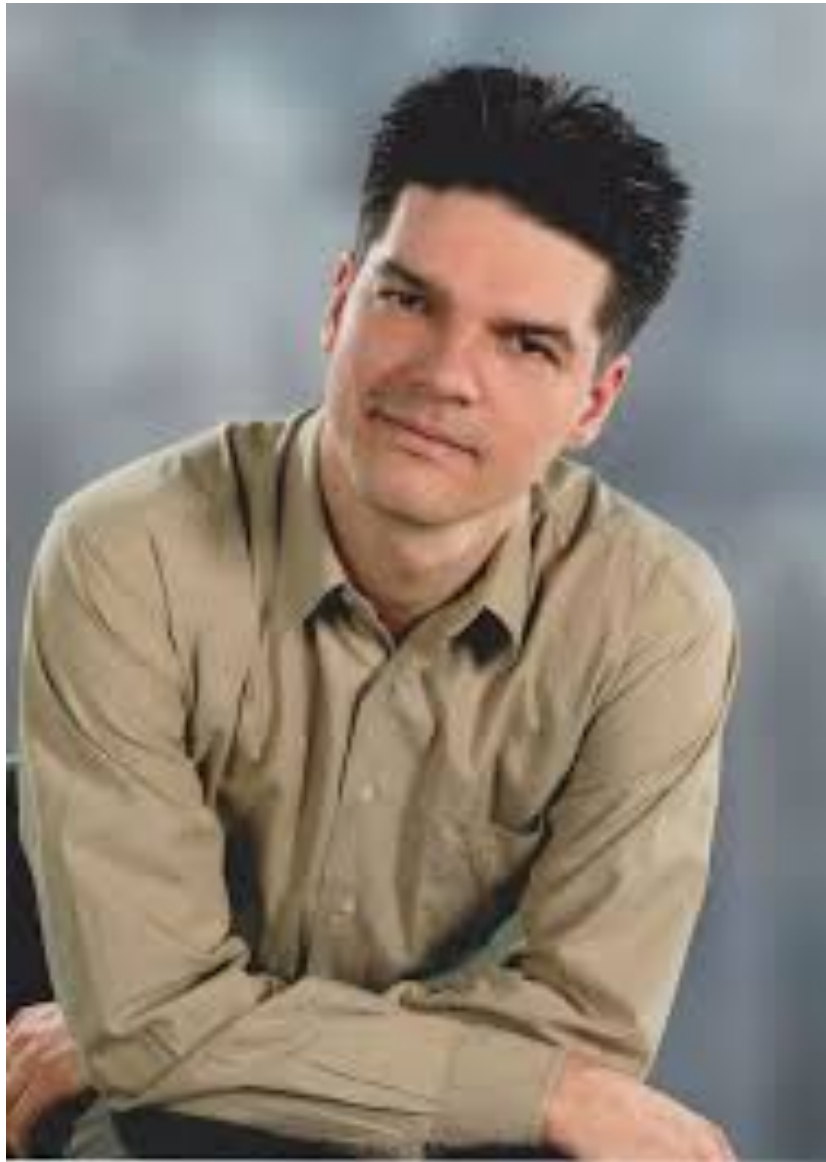
Social Events

- On Tuesday, Escape game: THE INFINITE LOOP (subscribe on Zulip channel)
- On Wednesday, “cocktail party” using Work Adventure (always open)
- Feel free to open text or voice channels on Discord to chat about the math, programming, PhD life, or renaming of proof assistants :-) It’s your space.



Andrej Bauer

andrej.com



- Computational Mathematics Professor at the University of Ljubljana
- Participant to the Univalent Foundations Program (IAS'12), where the HoTT book was conceived (chapter 11 on reals in particular), co-author of the Coq-HoTT library
- Also into algebraic effects and handlers (Eff language)
- Mixing all this in the Andromeda proof assistant
- Coq Tutorials
- Five Stages of Accepting Constructive Mathematics

