

Doctoral Fellow · ETH AI Center, ETH Zürich

Reward learning from heterogeneous human feedback and RLHF. I build methods that capture complex human preferences, with applications to real-world, multi-stakeholder design.

01 PUBLICATIONS

ICML 2026

MAVRL: Learning Reward Functions from Multiple Feedback Types with Amortized Variational Inference

Raphaël Baur, Yannick Metz, Maria Gkoulta, Mennatallah El-Assady, Giorgia Ramponi, Thomas Kleine Buening

ICML 2026

Mechanistic Interpretability Workshop

Where Do Models Find Happiness? Emotion Vectors in Open-Source LLMs

Sinie van der Ben, Raphaël Baur, Yannick Metz, Mennatallah El-Assady

ICLR 2025

Reward Learning from Multiple Feedback Types

Yannick Metz, András Geiszl, Raphaël Baur, Mennatallah El-Assady

ICML 2023

Interactive Learning with Implicit Human Feedback Workshop

RLHF-Blender: A Configurable Interactive Interface for Learning from Diverse Human Feedback

Yannick Metz, David Lindner, Raphaël Baur, Daniel Keim, Mennatallah El-Assady

eCAADe 2023

The DesignMind Toolkit: A Toolkit for Evidence-Based, Cognitively-Informed and Human-Centred Architectural Design

Michal Gath-Morad, Raphaël Baur, Christoph Hölscher

02 EDUCATION

09/2024 – present
Zurich, CH

Ph.D. in Computer Science

ETH AI Center, ETH Zürich

Navigating the Complexity of Multi-Stakeholder Design using AI-driven Collaboration.

Supervisor: Prof. Dr. Mennatallah El-Assady · Second advisor: Prof. Dr. Christoph Hölscher.

Recipient of the highly selective AI Center Doctoral Fellowship (1% acceptance rate).

09/2021 – 07/2024
Zurich, CH

M.Sc. Computer Science — Machine Intelligence

ETH Zürich · Minor: Computer Graphics

Thesis: Human-Aligned, Bluetooth-Based Indoor Localization Using Sequential Monte Carlo.

Supervisors: Prof. Dr. Mennatallah El-Assady & Prof. Dr. Christoph Hölscher.

09/2022 – 02/2023
Delft, NL

Master's Exchange, Computer Science

TU Delft

Recipient of a Swiss-European Mobility Program scholarship.

09/2018 – 08/2021
Zurich, CH

B.Sc. Computer Science

ETH Zürich

Thesis: Learnability of Buildings — Using Reinforcement Learning to Predict the Ease of Wayfinding in Large, Multilevel Buildings.

Supervisors: Prof. Dr. Dirk Helbing & Prof. Dr. Christoph Hölscher.

03 RESEARCH PROJECTS

2023

Towards Evidence-Powered Design of Emergency Departments

Chair of Cognitive Science, ETH Zürich & Institute for Emergency Medicine, University Hospital Zürich

Studied how the architectural configuration of emergency departments shapes face-to-face communication among healthcare professionals, informing evidence-based hospital design.

2023

HeartEchoVis — Visualization of Cardiologic Patient Reports

ISE Group, ETH Zürich & Heart Center, University Hospital Zürich

Built a web-based toolkit rendering cardiologic patient reports as diagrammatic visualizations of the heart, used by cardiologists to communicate with non-experts and other specialists.

04 PROFESSIONAL EXPERIENCE

- 09/2020 – present ○ **Teaching Assistant — Evidence-Based Design for Architecture (851-0252-08L)**
Chair of Cognitive Science, ETH Zürich
Developed the course toolkit for VR experiments and agent-based simulation in Unity3D (C#) and spatial analysis in Rhino/Grasshopper (Python, C#); authored the tutorials.
- 09/2020 – 12/2021 ○ **Teaching Assistant — Linear Algebra (401-0131-00)**
Interactive Geometry Lab, ETH Zürich
Led weekly exercise sessions (up to 30 students), graded assignments, and prepared students for final exams.
- 09/2019 – 07/2023 ○ **Ambassador, Center for Computer Science Education**
ABZ, ETH Zürich
Ran programming workshops at Swiss primary and high schools, introducing variables, loops, and modularity.
- 04/2020 – 05/2020 ○ **COVID-19 Deployment**
Swiss Army
Patient care for COVID-19 patients in Swiss hospitals.

05 HONORS, AWARDS & SCHOLARSHIPS

- 01/2023 ○ **ETH Ambassador, Global Young Scientist Summit 2023, Singapore**
One of nine ETH representatives; delegate for the Department of Humanities, Social and Political Sciences.
- 2018 – 2021 ○ **Member, Swiss Study Foundation**
Mentorship program; admission based on outstanding academic achievement, societal engagement, creativity, and curiosity.
- 2017 ○ **Award for Best Diploma (1st Class Rank)**
Lyceum Alpinum Zuoz
- 2017 ○ **Award for Best Thesis**
Lyceum Alpinum Zuoz
Prognosis of the environmental development of the Morteratsch valley — a photorealistic 3D visualization of global warming's impact on glacial valleys.

06 EXTRA-CURRICULAR ENGAGEMENT

- 2025 – present ○ **ETH AI Center Fellow Representative**
ETH AI Center, ETH Zürich
Elected member of the committee representing the ETH AI Center doctoral fellows, voicing their interests to the Center's leadership and helping shape fellowship policy, events, and community initiatives.
- 2015 – 2017 ○ **Founder & Head, Science Club**
Lyceum Alpinum Zuoz
Mentored peers on scientific projects and organized field trips to universities and research institutions.
- 2014 – 2017 ○ **Member, Fives Team**
Lyceum Alpinum Zuoz
Represented the school for three consecutive years at the Eton Fives Tournament, Eton College, Windsor, UK.

07 LANGUAGES

German Native

English C2 — Cambridge Advanced 209/210

French C1

Italian B1