

# LUKAS BALLO

## EDUCATION

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- 10.2021 – 05.2025 **PH.D. IN TRANSPORT PLANNING**  
ETH Zurich (Swiss Federal Institute of Technology)
- Research: Accessibility effects of sustainable mobility transitions, “E-Bike City”
  - Teaching multiple classes and supervising bachelor/master theses
  - Developing an open-source python package to generate alternative organizations of urban transport networks and test their impacts using agent-based simulations:  
<https://github.com/lukasballo/snman>
- 09.2023 – 02.2024 **VISITING SCHOLAR**  
MIT (Massachusetts Institute of Technology), Cambridge MA, USA
- 02.2014 – 09.2016 **M.SC. IN SPATIAL DEVELOPMENT AND INFRASTRUCTURE SYSTEMS**  
ETH Zurich (Swiss Federal Institute of Technology)
- 09.2013 – 12.2013 **EXCHANGE SEMESTER – SINGAPORE**  
Future Cities Laboratory, Singapore
- 09.2010 – 01.2014 **B.SC. IN ARCHITECTURE**  
ETH Zurich (Swiss Federal Institute of Technology)
- 09.2002 – 05.2010 **HIGH SCHOOL**  
Gymnázium Tilgnerova, Bratislava, Slovakia
- 08.2008 – 06.2009 **HIGH SCHOOL EXCHANGE**  
Hamilton High School, Sussex-Wisconsin, USA

## PROFESSIONAL EXPERIENCE

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- 09.2024 – present **CO-FOUNDER**  
AGIROO, Luzern
- Revolutionizing the civil engineering and planning industry with AI-native design digital twins
  - 70k of revenue and 130k of funding in the first 10 months
- 05.2020 – 08.2021 **HEAD OF MOBILITY DATA ANALYTICS**  
BOND Mobility, Zurich
- Led the mobility data analytics in an international startup for dockless e-bike sharing, based on technology developed by our own company Roll2Go
  - Created insights about travel behavior within shared micro-mobility
  - Co-led an academia-industry research project funded by Innosuisse
  - Developed tools for data-driven fleet deployment and rebalancing
- 04.2019 – 05.2020 **CO-FOUNDER**  
Roll2Go, Zurich (Acquired by BOND Mobility)
- Co-founded a spin-off for understanding the potential of emerging mobility services in transport planning
  - Acquired Business-to-Business and Business-to-Government contracts
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- 12.2016 – 03.2019 **PROJECT MANAGER FOR INNOVATIONS**  
Swiss South-Eastern Railway (SOB), Samstagern
- Implemented an onboard monitoring system for predictive maintenance
  - Co-developed an internal railroad GIS
  - Developed a methodology of actionable metrics for managing infrastructure maintenance costs



## PERSONAL DETAILS

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**Name:**  
Lukas Ballo

**Mobile:**  
+41 76 741 8369

**Email:**  
lballo@ethz.ch

**Place of Residence:**  
Lucerne, Switzerland

**Birthday:**  
13.05.1992

**Nationality:**  
Slovakia

## IT

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**Programming Languages:**  
Python, LaTeX, JavaScript

**Data/CAD:**  
Postgres, PostGIS, QGIS,  
Vectorworks

**Cloud Computing:**  
MS Azure, AWS

## LANGUAGES

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**English:** Fluent  
**German / Swiss German:** Fluent  
**Slovak and Czech:** Native

## INTERNSHIPS AND STUDENT JOBS

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11.2014 – 06.2016 **PART-TIME RESEARCH ASSISTANT**

ETH Zurich (Swiss Federal Institute of Technology)  
Institute for Transport Planning and Systems  
Traffic Engineering Research Group led by Dr. Monica Menendez

- Supported a Ph.D. student with his research on the capacity of highway weaving sections
- Developed processing pipelines in MATLAB for data from highway traffic measurements

02.2015 – 07.2015 **INTERN FOR NETWORK DESIGN IN PUBLIC TRANSIT**

Verkehrsbetriebe Zürich (Public Transit Authority of Zurich)

- Developed timetable concepts for future needs, better punctuality, or to detour upcoming construction sites and used VISUM for modeling long-term impacts
- Designed a temporary bus network for the Long Night of Zurich's Museums

12.2011 – 06.2013 **PART-TIME TEACHING ASSISTANT**

ETH Zurich (Swiss Federal Institute of Technology)  
Institute for Technology in Architecture  
Research Group of Prof. Dr. Philippe Block

- Developed e-learning tools for lectures on structural design

09.2012 – 02.2013 **INTERN FOR ARCHITECTURAL DESIGN**

Allemann Bauer Eigenmann Architects, Zurich

## AWARDS AND FELLOWSHIPS

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- SNF BRIDGE Proof of Concept Fellowship (130k CHF)
- ETH Doc.Mobility Fellowship (20 k CHF)
- Silver medal of ETH Zurich for an outstanding master's thesis
- Willi Studer Award for the M.Sc. class's best graduate
- Fellow of the Swiss Study Foundation

## PROFESSIONAL ORGANIZATIONS

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- SVI – Swiss Association of Transport Engineers
- GDI – Society of Swiss Public Transport Engineers