

# CURRICULUM VITAE OF LENART TREVEN

PhD Student at *ETH Zürich*

August, 2021

## PERSONAL INFORMATION

*Birthday:* September 2, 1996

*Nationality:* Slovene

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## EDUCATION

- Nov 2020–Present
    - ▶ **ETH Zürich, PhD**
      - Research Area: Continuous-time Reinforcement Learning
  - Sep 2018–Oct 2020
    - ▶ **ETH Zürich, Master’s Degree programme in Data Science**
      - GPA: 5.86/6
      - Graduated with distinction
  - Oct 2015–Aug 2018
    - ▶ **University of Ljubljana, Faculty of Mathematics and Physics, Bachelor’s degree, Mathematics**
      - GPA: 10.00/10
      - After first, second and third year awarded with Dean’s list selection
  - Sep 2011–Jun 2015
    - ▶ **Diocesan Classical Gymnasium; Ljubljana**
      - Golden graduate, highest grade in Mathematics, Physics and Chemistry
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## WORK EXPERIENCE

- Dec 2019–Feb 2020
    - ▶ **Data Scientist, ETH Juniors, Zurich**
      - Optimizing production of chemicals for pharmaceutical company Eumedica, two months project
  - Jun 2017–Sep 2017
    - ▶ **Software Developer Intern, Xlab d.o.o.; Ljubljana**
      - Worked as software developer for two months, summer internship
  - Aug 2016–Sep 2017
    - ▶ **Researcher at Institute ”Jožef Stefan”; Ljubljana**
      - Worked in department of solid state physics for one month, summer internship
    - ▶ **Mentor, Diocesan Classical Gymnasium; Ljubljana**
      - Teaching students math as preparation for competitions (qualifications for National Math Competition, IMO)
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## PAPERS

- ▶ Lenart Treven, Sebastian Curi, Mojmir Mutny, and Andreas Krause. Learning Stabilizing Controllers for Unstable Linear Quadratic Regulators from a Single Trajectory. *Learning for Dynamics and Control*. PMLR, 2021.
  - ▶ W. Finsterle, J. P. Montillet, W. Schmutz, R. Sikonja, L. Kolar, and L. Treven, The total solar irradiance during the recent solar minimum period measured by soho/virgo, *Scientific Reports* 11 (2021), no. 1, 7835.
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## PREPRINTS

- ▶ Kolar, L., Šikonja, R., & Treven, L. (2020). Iterative Correction of Sensor Degradation and a Bayesian Multi-Sensor Data Fusion Method. arXiv e-prints, p.arXiv:2009.03091.

- In the paper we present the results which we obtained during the course Data Science Lab

► **Treven, L., Wenk, P., Dörfler, F., & Krause, A. (2021). Distributional Gradient Matching for Learning Uncertain Neural Dynamics Models. arXiv preprint arXiv:2106.11609.**

- We introduce distributional gradient matching which we use to learn dynamical systems.

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## AWARDS

- **ETH Medal**
  - Awarded for my Master’s thesis, ETH Zürich.
- **Faculty Prešeren award**
  - Awarded for my Bachelor’s thesis, University of Ljubljana, Faculty of Mathematics and Physics
- **International Mathematics Competition for University Students 2018**
  - Second Prize
- **International Mathematics Competition for University Students 2017**
  - Third Prize
- **International Mathematics Competition for University Students 2016**
  - Honourable Mention
- **International Mathematical Olympiad 2015 in Chiang Mai, Thailand**
  - Part of Slovenia’s national team
- **During high school each year top 10 and gold plaque in Math National Competition (organised by DMFA), National Champion in 3rd year**
  - <https://www.dmfa.si/Tekmovanja/MaSSA/ArhivDosezkov.aspx>

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## SKILLS

- **Languages**
  - Slovenian, native
  - English, full professional (IELTS overall band 8, May 2018)
  - German, intermediate (9 years)
  - Latin
- **Computer skills**
  - Python (Language I used most of the time at faculty and for various projects)
  - Java (Together with classmate I wrote a simple server and user interface for chatting)
  - Matlab (Language for practical part of courses Introduction to numerical methods, Numerical Linear Algebra and Computational Methods for Quantitative Finance: PDE Methods)
  - Go (Language which I used during my internship at Xlab)
  - Haskell (Functional language which I learned as one semester course)
  - Mathematica (Wrote several simulations during my work as intern in department of solid state physics)
  - R
  - Git
  - Latex
  - MS Office
- **Others**
  - Piano accordion (7 years of Music School)
  - Driver’s License

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**PERSONAL PROFLE**

*While enjoying working in a competitive environment, I also like working as part of a team. I spend a lot of my free time doing sports. I am capable of handling very stressful situations. I am a calm and rational person. I would consider my biggest virtues to be ability to establish friendly relationships with people around me and giving it my very best at everything I work at.*