

## Education

**University College London**

Research student, September 2021 - Present.  
Research group: Programming Principles, Logic and Verification.  
Supervisor: Fabio Zanasi.

**University of Amsterdam**

MSc Logic (cum laude), 2020.  
MSc Thesis: Quantum quirks, classical contexts: Towards a Bohrification of effect algebras.  
Supervisors: Chris Heunen (University of Edinburgh), Nick Bezhanishvili.

**University of Edinburgh**

BSc Mathematics (First class honours), 2018.  
BSc Project: Sheaves on Topological Spaces and their Logic.  
Supervisor: Tom Leinster.

**Jyväskylän Normaalikoulu (Finland)**

Ylioppilastutkinto (High school matriculation examination), 2014.  
Mathematics, Physics, Chemistry, Finnish, Russian, English, French.

Projects and  
Work experience**Aboa Vetus Ars Nova -museum**

Civilian service year.  
October 2020 - September 2021.

**University of Amsterdam**

Teaching assistant for MSc Mathematics course Category Theory and Topos Theory.  
Autumn 2019.

**Tartu Observatory**

Development of Satellite Attitude Determination Software.  
Summer 2018.

**London Mathematical Society Undergraduate Research Bursary**

Project title: Quantum Logic and Set Theory.  
Report title: The Category of Hilbert Spaces as an Orthogonal Category.  
Project blog: [andinparticularexists.wordpress.com](http://andinparticularexists.wordpress.com).  
Supervisor: Chris Heunen.  
Summer 2017.

**Tartu Observatory**

Erasmus+ traineeship.  
Traineeship title: Development of Satellite Attitude Determination Software.  
Summer 2016.

**Department of Physics, University of Jyväskylä**

Summer trainee, 2013.

Extracurricular  
positions**The University of Edinburgh SocieTea**

Committee position, Publicity, 2017-18.  
Committee position, President, 2016-17.

**The University of Edinburgh Philosophy Society**  
Committee position, Ordinary member, 2015-16.

## Other experience

**Infinity category theory reading group**  
Organizer, 2019.

**Reading project in point-free topology**  
Supervisor: Nick Bezhanishvili.  
2019-2020.

**Research project in categorical models for homotopy type theory**  
Supervisor: Benno van den Berg.  
2019-2020.

**Amsterdam Fringe Festival**  
Volunteer, September 2019.  
Volunteer, September 2018.

**Logic and Physics reading group**  
Organizer, 2018-2019.

**Hidden Door Festival**  
Volunteer, May-June 2018.

**Art-Master Theatre**  
Website translator, occasionally between 2013 and 2015.

## Publications

*String diagrams for layered explanations*  
with Fabio Zanasi.  
To appear in the proceedings of ACT 2022. arXiv:2207.03929.

*There and back again: A circuit extraction tale*  
with Miriam Backens, Hector Miller-Bakewell, Giovanni de Felice, John van de Wetering.  
Quantum 5, 421 (2021). doi: 10.22331/q-2021-03-25-421.

*Statistical Hypothesis Testing in the Context of Hume's Critique of Induction*  
University of Edinburgh Philosophy Society Journal, Issue 2: 2017-18.

## Conference talks

**Applied Category Theory 2022**  
*String diagrams for layered explanations.*  
Talk recording: [https://youtu.be/iNdH\\_U-C1Nc?t=22803](https://youtu.be/iNdH_U-C1Nc?t=22803).

**Quantum Physics and Logic 2020**  
*There and back again: A circuit extraction tale.*  
Talk recording: <https://youtu.be/Orilw6ujWag>.

## Languages

Finnish (native), Russian (native), English (fluent),  
French (DEL F B2).