

**RESEARCH INTERESTS**

Probability theory, stochastic processes, random trees, tree-valued Markov chains, continuous random trees, metric space scaling limits, branching processes, random walks in random environment.

**EDUCATION****University of Oxford****Oxford, UK***DPhil student in Probability*

Oct 2021 - Current

- Supervised by Julien Berestycki and Matthias Winkel
- Research in probability theory, branching processes and random trees
- Funded by the EPSRC

**Ludwig-Maximilians-Universität****Munich, Germany***M.Sc. in Mathematics*

Oct 2019 – July 2021

- **Final Grade: 1.1** (German grading scale from 1-5 with 1 being best)
- Master Thesis: *Ergodicity of the Dynamical XY-Model*, supervisor: Markus Heydenreich, Grade 1.0
- Focus on probability theory, stochastic processes and statistical mechanics

**École normale supérieure de Lyon****Lyon, France***Exchange student in Master Mathematics M2*

Jan 2021 – April 2021

- Funded by the Erasmus program

**Ludwig-Maximilians-Universität****Munich, Germany***B.Sc. in Mathematics (major) and Theoretical Physics (minor)*

Oct 2016 – Sep 2019

- **Final Grade: 1.3** (German grading scale from 1-5 with 1 being best)
- Bachelor Thesis: *The Scaling Limit of the Erdős-Rényi Graph*, supervisor: Markus Heydenreich, Grade 1.0

**National University of Singapore****Singapore***Exchange Semester in Mathematics (major) and Theoretical Physics (minor)*

Aug 2018 – Dec 2018

- Undergraduate Research Project with Rongfeng Sun, Grade: A+
- Funded by LMU exchange

**St. Raphaels Gymnasium Heidelberg****Heidelberg, Germany***A-Levels / Abitur*

Sep 2008 – June 2016

- **Final Grade: 1.2** with Honours (German grading scale from 1-6 with 1 being best)
- Exchange Semester at Ridley College, St. Catherines, Canada; Jan.-July 2015

**TALKS AND PRESENTATIONS****PIMS summer school**

June 2022

*Contributed short talk, “Characterisation of some tree-valued Markov chains”.***Munich probability seminar (LMU/TUM)**

July 2021

*Master thesis presentation, “Ergodicity of the Dynamical XY-Model”.*

## ACADEMIC ACTIVITIES

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### **Pacific Institute for the Mathematical Sciences (PIMS)**

**Vancouver, Canada**

*Summer school: Probability*

June 2022

- Received funding for accommodation and travel

### **Centre de Recherches Mathématiques (CRM)**

**Montréal, Canada**

*Workshop: Branching systems and PDEs*

May 2022

- Received funding for accommodation and travel

### **CIRM Marseille**

**Marseille, France**

*Summer school: Random trees and random graphs*

July 2019

## TEACHING EXPERIENCE

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### **University of Oxford**

**Oxford, UK**

*Tutor and Teaching Assistant*

Oct 2021 - Current

- Marking homework and co-supervising classes for Probability on Graphs and Lattices MT21 and Applied Probability HT22
- Tutor at St. Catherines College for A8 Probability

### **Ludwig-Maximilians-Universität**

**Munich, Germany**

*Tutor and Corrector*

April 2018 – Jan 2021

- Supervising groups of 10-30 students with exercises and marking homework
- Courses supervised:
  - Linear Algebra 2 (1st year course; 2018)
  - Probability Theory (2nd-3rd year course: different types of convergence, limit theorems, characteristic functions, conditional expectations, martingales, Brownian motion; 2019)
  - Stochastics (2nd year course: introduction to probability, measure theory; 2019/20)
  - Probability theory (as above as online course; 2020)
  - Stochastic processes (4th year course: Brownian motion, continuous time Markov chains, general Markov processes in continuous time; marking only; 2020/21)

## SKILLS, ACTIVITIES & INTERESTS

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**Languages:** German (native), English (fluent), French (advanced), Spanish (basic), Latinum

**Technical Skills:** Python, C++ (basic), Mathematica (basic), Latex

**Activities:** Rowing, Running, Rock Climbing, Road Cycling, Mountaineering