

# Emanuel Roth

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## Personal Details

**Surname, First Name** | *Roth, Emanuel*

**Date of Birth** | *October 9 1998*

**Place of Birth** | *Jerudong, Brunei Darussalam*

**Address** | *Old Town, Edinburgh, United Kingdom*

**Languages** | *Fluent in English and German, basic command in Tagalog and Chinese*

**Citizenship** | *German, Filipino*

## Education

**University of Edinburgh** | *PhD Student in Mathematics* **2024 - 2028**

- Mathematics PhD supervised by Johan Martens **2024 - 2028**  
Topic: A symplectic approach to global Springer theory (the symplectic geometry of moduli spaces of parahoric Higgs bundles)

**University of Heidelberg** | *Bachelors and Masters Student in Mathematics* **2017 - 2024**

- Mathematics Master supervised by Florent Schaffhauser: *Note 1,7* **2022 - 2024**  
Topic: Canonical reductions of principal bundles
- Mathematics Master Erasmus exchange student: *University of Vienna* **Winter Semester 2022 - 2023**
- Mathematics Bachelor: *Note 2,1* **2017 - 2022**  
Topic: The Mitchell embedding theorem

**Schuldorf Bergstraße, Seeheim-Jugenheim, Germany** | *School Student* **2016 - 2017**

**Jerudong International School, Jerudong, Brunei Darussalam** | *School Student* **2004 - 2016**

## Teaching

**Undergraduate Course (to be determined)** | *University of Edinburgh* **Spring Semester 2025**

**Mathematics for Physicists 3** | *University of Heidelberg* **Winter Semester 2023 - 2024**

**Mathematics for Physicists 2** | *University of Heidelberg* **Summer Semester 2023**

**Linear Algebra 2** | *University of Heidelberg* **Summer Semester 2022**

**Linear Algebra 1** | *University of Heidelberg* **Winter Semester 2021 - 2022**

**Preliminary Courses** | *University of Heidelberg* **October 2021**

**Preliminary Courses** | *University of Heidelberg* **October 2020**

## Conferences and Visits

**SRI in Algebraic Geometry (if accepted)** | *Colorado State University* **16 July - 1 August 2025**

**Possible Visit (if accepted)** | *University of Heidelberg* **February 2025**

**Winter School on Algebraic Geometry** | *Lancaster University* **16 - 20 December 2024**

**Moduli Spaces of Vector Bundles and Curves** | *Université de Cergy-Pontoise* **11 - 13 December 2023**