Florian Noah Grün - Curriculum Vitae

Personal Data

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Website	`https://Cathelion.github.io`, `https://www.linkedin.com/in/florian-gruen-3a4212194/`
Date of birth	12.08.1998 in Karlsruhe, Germany; German citizenship
Research interests	calculus of variations, elasticity theory, free boundary problems, PDEs, differential geometry

Education

Apr 2024 –	PhD in Mathematics (Kyoto University, Japan) ↪ Supervisor: Prof. Tatsuya Miura ↪ recipient of the Honjo International Scholarship for doctoral students
Aug 2021 – Feb 2024	Master in Mathematics with minor in CSE (EPF Lausanne, Switzerland): GPA 5.63 ↪ Master thesis: "Regularity of the one-phase problem" (Dr. Xavier Fernández-Real) ↪ Project 2: "On the continuous and discrete gradient conjecture" (Prof. Nicolas Boumal, Quentin Rebjock) ↪ Project 1: "Some regularity results for the obstacle problem" (Prof. Maria Colombo, Dr. Xavier Fernández-Real)
Aug 2018 – Jul 2021	Bachelor in Mathematics (Lund University, Sweden): Pass with distinction ↪ Thesis: "Optimality gaps and regularity for one-dimensional variational problems" (Prof. Andrey Ghulchak)
Jul 2016	Abitur/high school A-levels (Kepler-Gymnasium Freudenstadt, Germany): GPA 1.7 ↪ Fachpreis Physik (highest grades in physics) and 1-year membership in the German Physical Society

Further education and skills

Research Experience
Undergraduate (REU)
	- REU at the Einstein Institute/Hebrew University of Jerusalem, Israel (Jul-Sep 2023)
	    ↪ "Gamma-convergence and energy estimates in elasticity" (Prof. Cy Maor)
	- Project at Bremen/Hamburg University, Germany (Aug-Sep 2022, Feb 2023)
	    ↪ "Pulse waves in partial differential equations" (Prof. Jens Rademacher)
	- SURP Research Program at Chinese University of Hong Kong (2020) (canceled due to Covid-19)

Programming	Python, Java, MATLAB, C++, Haskell, Mathematica, Latex
Languages	German (C2), English (C1), Swedish (C1), French (C1/B2), Japanese (B2 - JLPT N3 Certificate)

Articles

1. "Non-sufficiency of smoothness in the gradient conjecture" to appear in *Applied Mathematics E-Notes* (2024)

Seminars, workshops and conferences attained

Feb 2023	Applied Analysis Seminar Hamburg University, Talk: "Sufficient conditions for spikes in the FitzHugh-Nagumo system"
Sep 2023	*Weizmann PDEs Day* at Weizmann Institute of Science, Rehovot, Israel
Sep 2022	*Horizons in non-linear PDEs* at Ulm University, Germany
Aug 2022	*Gene Golub SIAM Summer School 2022* at Gran Sasso Science Institute, Italy ↪ presented poster: "The obstacle problem and optimal stopping"
Jul 2022	*Free boundary problems and related topics* at ETH Zürich, Switzerland

Work experience

May 2024 -	Teaching assistant at Kyoto University for "Calculus A"
Sep 2023 - Feb 2024	Teaching assistant ("Responsable de salle") at EPFL for "Advanced Analysis I"
Aug 2022 - Sep 2022	Student assistant at SIAM NWCS22 Bremen University, Germany
Nov 2017 - Jul 2018	Working Holiday in Japan (Okushiga Kogen Hotel Nagano, Tomato Guesthouse Kyoto)
Dec 2016 - Oct 2017	Working Holiday in Canada (Marriott Delta Lodge at Kananaskis)