



Arnaud Maret
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Work address

Mathematisches Institut
Universität Heidelberg
Mathematikon
Im Neuenheimer Feld 205
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Home address

Jägerpfad 12
69118 Heidelberg
Germany

Languages

French: *native speaker*
English: *fluent*
German: *good command*

Personal interests

ski, chess,
traveling, paragliding

Arnaud Maret

PhD Student of Mathematics

Employment

Universität Heidelberg

PhD Student of Mathematics Sep 2018-present
thesis title: *The symplectic structure of representation varieties*
supervisor: prof. Peter Albers expected Sep 2021

Education

ETH Zürich

MSc in Mathematics (with mention) Aug 2018
thesis title: *Forcing relations for periodic orbits of surface homeomorphisms*
supervisor: prof. Will J. Merry, ETH Zürich

École Polytechnique Fédérale de Lausanne

BSc in Mathematics Jun 2016
thesis title: *The Hardy-Littlewood Circle Method and the Waring problem*
supervisor: prof. Yu-Ru Liu, University of Waterloo

University of Waterloo

International Student Exchange Program Sep 2015-Apr 2016

Research interests

Symplectic geometry, dynamical systems and their connections to higher Teichmüller theory and representation varieties of fundamental groups of surfaces.

Academic projects

Master Semester Project

Interval maps and Li-Yorke chaos

supervisor: prof. Will J. Merry, ETH Zürich Jun 2017

Honours

International Mathematical Olympiad Santa Marta, Colombia

Honorable Mention Jul 2013

Teaching Experience

Universität Heidelberg

Proseminar Elementare Differentialgeometrie Oct 2018-Feb 2019
Co-organizer of a student seminar on differential geometry.

ETH Zürich

Teaching assistant Feb 2018-Aug 2018
Selected assistant for Wahrscheinlichkeit und Statistik (prof. Cheridito).
Design and presentation of biweekly lecture reviews for group of 20 students.

École Polytechnique Fédérale de Lausanne

Teaching assistant Sep 2014-Jun 2015
Selected assistant for Analyse I et II (prof. Monod and prof. Krieger).
Animation of biweekly exercise classes for group of 10 students.

Olympiad Experience

Leader of Team Switzerland

International Mathematical Olympiad (IMO)..... 2016-present
Member of the jury at the IMO 2016 (Hong Kong), IMO 2017 (Rio de Janeiro) and IMO 2018 (Cluj).

Academic Director

Swiss Mathematical Olympiad..... 2017-present
Coordinator of the problems selection process in Switzerland. Teaching of various training sessions for group of 25 students.

Talks

Forcing relations for periodic orbits of surface homeomorphisms

Ruhr-Universität Bochum.....Mar 2018

Justus-Liebig-Universität GießenMar 2018

Universität HeidelbergJun 2018