

Mireille Soergel

Curriculum Vitae

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Education

- since Oct 2019 **PhD in Mathematics**, *Université de Bourgogne*, Dijon, France.
Advisors: Thomas Haettel (Université de Montpellier, France) and Luis Paris
Working title: *The $K(\pi, 1)$ conjecture for Artin groups*
- April 2016–March 2019 **Master of Science in Mathematics**, *Ruprechts-Karls-Universität*, (Heidelberg, Germany).
Thesis: *Simplicial complexes associated to two-generated Artin groups*
Supervisors: JProf. Dr. Maria Beatrice Pozetti and JProf. Dr. Petra Schwer (Karlsruhe Institute of Technology, Germany)
- Sep 2011–April 2016 **Bachelor of Science in Mathematics**, *ETH Zürich*, Zürich, Switzerland.
Thesis: *Complete minimal systems in $\ell_\infty(\omega)$*
Supervisor: Dr. Lorenz Halbeisen

Experience

- since Oct 2019 **Doctoral contract**, *Université de Bourgogne*, Dijon, France.

Teaching

- since March 2020 **Teaching assistant**, *Université de Bourgogne*, Dijon, France.
Fall Semester 2021: Maths 1B (Logic and Algebra) (30 hours/semester)
Spring Semester 2021: Maths 2A (Analysis) (30 hours/semester)
Fall Semester 2020: Maths 2B (Logic and Algebra) (30 hours/semester)
Spring Semester 2020: Mathematics applied to Biology (10 hours/semester)
- Oct 2016–March 2018 **Teaching assistant**, *Ruprechts-Karls-Universität Heidelberg*, Heidelberg, Germany.
Winter Semester 2017/2018: Linear Algebra I
Summer Semester 2017: Linear Algebra II
Winter Semester 2016/2017: Linear Algebra I
each including grading weekly exercise sheets and final exams
- Feb 2015–June 2015 **Teaching assistant**, *ETH Zürich*, Zürich, Switzerland.
Numerical Analysis II, including grading weekly exercise sheets

Research

Publications

- 2021 M. Soergel, *Systolic complexes and group presentations*, submitted, arXiv:2105.01345

Talks

- Nov. 2022 upcoming, Orsay (France), Paroles aux Jeunes Chercheuses et Chercheurs du GDR Platon

- Juil. 2022 upcoming, Vienna (Austria), Summer topology conference
 May 2022 Montpellier (France), Workshop Tresses, MCG et Khovanov-Seidel, *Structures de Garside sur les groupes libres*
 Feb 2022 online, Séminaire virtuel francophone Groupes et Géométries, *Présentations systoliques et groupes de Garside*
 Dec 2021 Münster (Germany), Tea Seminar, *Systolic complexes and Garside groups*
 Dec 2021 online, Bielefeld (Germany), Oberseminar Groups and Geometry, *Systolic complexes and group presentations*
 Oct 2021 Dijon (France), Séminaire GADT, *Complexes systoliques et groupes de Garside*
 Sep 2021 Kleeback (France), Meeting Groups and Geometry, *Systolic complexes and Garside groups*
 June 2021 online, Oxford (UK), Junior Topology and Group Theory Seminar, *Systolic complexes and group presentations*
 June 2021 Nearly Carbon Neutral Geometric Topology Conference, Video recording, *Systolic complexes and group presentations*
 Dec 2020 online, Rennes (France), Séminaire Pampers, *Complexes systoliques et graphes de Cayley*
 Dec 2020 online, Montpellier (France), Séminaire des doctorants, *Complexes systoliques et graphes de Cayley*
- [Conferences attended](#)
- Juin 2022 upcoming, Paris (France), Hyperbolic groups and their generalisations
 April 2022 Marseille (France), Groups acting on fractals
 Jan 2022– June 2022 Montpellier (France), Scientific visit to Thomas Haettel
 Dec 2021 Dijon(France), Winterbraids XI
 Nov 2021 Nice (France), Scientific visit to Indira Chatterji
 Nov 2021 Marseille (France), Paroles aux jeunes chercheurs en Géométrie et Dynamique
 Sep 2021 Berlin (Germany), The dual approach to Coxeter and Artin groups; Garside theory and applications
 July 2021 Online, Young Geometric Group Theory X
 May 2021 Online, Workshop Perspectives on Artin Groups
 April 2021 Online, Second Meeting of AIMaRe
 Dec 2020 Online, Paroles aux jeunes chercheurs en Géométrie et Dynamique
 June 2020 Online, Artin groups, CAT(0) geometry and Related topics
 March 2020 Montpellier (France), Scientific visit to Thomas Haettel
 Feb 2020 Saint-Jacut-de-la-Mer (France), Young Geometric Group Theory IX
 Feb 2020 Pisa (Italy), Winterbraids X
 Jan 2020 Dijon (France), First Meeting of AIMaRe
 Nov 2019 Montpellier (France), Scientific visit to Thomas Haettel

- Nov 2019 Nancy (France), Paroles aux jeunes chercheurs en Géométrie et Dynamique
- Nov 2019 Dijon (France), Low dimensional actions of 3-manifold groups
- Oct 2019 Caen (France), Journées Normandes en Topologie
- Jan 2019 Marseille (France), Master Class Groups and Geometries
- Sep 2018 Bochum (Germany), Summer School – New Perspectives in Hyperplane Arrangements
- May 2018 Heidelberg (Germany), Meeting of the German Chapter of European Women in Mathematics (EWM)

Volunteer Work

- since June 2021 Elected PhD student representative in the lab council
- since March 2021 Organizer of the mathematics PhD students seminar in Dijon
- Oct 2017– Oct 2018 Elected member of the mathematics department council (Fakultätsrat) as a students representative
- Oct 2017– Oct 2018 Member of the undergrad committee (Studienkommission) for mathematics as a students representative
- Feb 2016– May 2016 Editor of VAMP, the ETH maths and physics students' journal

Languages

- French native
- German native
- English proficient

Computer skills

- Basic PYTHON, SAGEMATH, \LaTeX

Interests

- Music I play viola in a amateur orchestra, the Société philharmonique de Dijon (France). Previously, I was a soprano singer in the choir Studentenkantorei in Heidelberg (Germany).