

# Mireille Soergel

## Curriculum Vitae

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📄 soergelm.github.io

### Education

- since Oct **PhD in Mathematics**, *Université de Bourgogne*, Dijon, France.  
2019 Advisors: Thomas Haettel (Université de Montpellier, France) and Luis Paris
- April 2016– **Master of Science in Mathematics**, *Ruprechts-Karls-Universität*, Heidel-  
March 2019 berg, 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– **Bachelor of Science in Mathematics**, *ETH Zürich*, Zürich, Switzerland.  
April 2016 Thesis: *Complete minimal systems in  $\ell_\infty(\omega)$*   
Supervisor: Dr. Lorenz Halbeisen

### Experience

- since Oct **Scientific Assistant**, *ETH Zürich*, Zürich, Switzerland.  
2022
- Oct **Doctoral contract**, *Université de Bourgogne*, Dijon, France.  
2019–Sept  
2022

### Teaching

- March **Teaching assistant**, *Université de Bourgogne*, Dijon, France.  
2020–Jan Fall Semester 2021: Maths 1B (Logic and Algebra) (30 hours/semester)  
2022 Spring Semester 2021: Maths 2A (Analysis) (30 hours/semester)  
Fall Semester 2020: Maths 1B (Logic and Algebra) (30 hours/semester)  
Spring Semester 2020: Mathematics applied to Biology (10 hours/semester)
- Oct 2016– **Teaching assistant**, *Ruprechts-Karls-Universität Heidelberg*, Heidelberg,  
March 2018 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– **Teaching assistant**, *ETH Zürich*, Zürich, Switzerland.  
June 2015 Numerical Analysis II, including grading weekly exercise sheets

### Publications

- 2022 M. Soergel, *Systolic complexes and group presentations*, accepted, Groups, Geometry and Dynamics, arXiv:2105.01345

## Talks

- Dec 2022 upcoming, Münster (Germany), Tea Seminar
- Nov 2022 Orsay (France), Paroles aux Jeunes Chercheuses et Chercheurs du GDR Platon, *A generalized Davis complex for Dyer groups*
- Nov 2022 Zürich (Switzerland), Geometry Seminar, *A generalized Davis-Moussong complex for Dyer groups*
- Aug 2022 Amiens (France), Journées Tresses, *Dyer groups are CAT(0)*
- July 2022 Vienna (Austria), Summer topology conference, *Dyer groups are CAT(0)*
- 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 Kleebach (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 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 AlMaRe

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  
 04.2021 Online, Second Meeting of AlMaRE  
 Feb 2020 Pisa (Italy), Winterbraids X  
 Jan 2020 Dijon (France), First Meeting of AlMaRe  
 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

## Volunteer Work

June 2021 – Elected PhD student representative in the department council  
 June 2022  
 March 2021 – Organizer of the mathematics PhD students seminar in Dijon  
 Jan 2022  
 Oct 2017– Elected member of the mathematics departement council (Fakultätsrat) as a  
 Oct 2018 students representative  
 Oct 2017– Member of the undergrad committee (Studienkommission) for mathematics as a  
 Oct 2018 students representative  
 Feb 2016– Editor of VAMP, the ETH maths and physics students' journal  
 May 2016

## Languages

French native  
 German native  
 English proficient

## Interests

Music I played viola in amateur orchestras, the Société philharmonique de Dijon (France) and the orchestra Polyphonia in Zürich (Switzerland). In between, I was a soprano singer in the choir Studentenkantorei in Heidelberg (Germany).