

# Svenja Marie Griesbach

## Personal information

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Contact	sgriesbach@cmm.uchile.cl <a href="https://tu.berlin/disco/griesbach">https://tu.berlin/disco/griesbach</a>
Citizenship	German
Education	<b>Universidad de Chile</b> Santiago, Chile CMM postdoctoral position since Nov 2024 Advisor: Prof. Dr. José Correa
	<b>Technical University Berlin</b> Berlin, Germany Ph.D. position Oct 2021 – Sep 2024 Title: Revealing and Exploiting Information in Network Environments Advisor: Prof. Dr. Max Klimm
	<b>University of Cologne</b> Cologne, North Rhine-Westphalia, Germany Master of science in business mathematics 2019 – 2021
	<b>University of Cologne</b> Cologne, North Rhine-Westphalia, Germany Bachelor of science in business mathematics 2015 – 2019
	<b>University of Ljubljana</b> Ljubljana, Slovenia ERASMUS semester Sep 2018 – Feb 2019
	<b>Altes Gymnasium</b> Flensburg, Schleswig-Holstein, Germany Abitur 2015
	<b>Deer Isle Stonington High School</b> Deer Isle, Maine, USA Exchange year 2012 – 2013
Languages	German (native speaker) English (fluent) Latin (advanced knowledge) Spanish (basic knowledge)

## Publications

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Journal articles

**Deterministic Impartial Selection with Weights**

with Javier Cembrano and Maximilian J. Stahlberg  
to appear in *ACM Transactions on Economics and Computation*

**Book Embeddings of  $k$ -Framed Graphs and  $k$ -Map Graphs**

with Michael A. Bekos, Giordano Da Lozzo, Martin Gronemann, Fabrizio Montecchiani, and Chrysanthi N. Raftopoulou  
*Discrete Mathematics*, 2024

Conference  
proceedings

**Bicriterial Approximation for the Incremental Prize-Collecting Steiner-Tree Problem**

with Yann Disser, Max Klimm, and Annette Lutz  
*ESA 2024 – Proc. 32nd European Symposium on Algorithms*

**Optimizing Throughput and Makespan of Queuing Systems by Information Design**

with Max Klimm, Philipp Warode, and Theresa Ziemke  
*ESA 2024 – Proc. 32nd European Symposium on Algorithms*

**Information Design for Congestion Games with Unknown Demand**

with Martin Hoefer, Max Klimm, and Tim Koglin  
*AAAI 2024 – Proc. 38th Annual Conference on Artificial Intelligence*

**Deterministic Impartial Selection with Weights**

with Javier Cembrano and Maximilian J. Stahlberg  
*WINE 2023 – Proc. 19th Conference on Web and Internet Economics*

**Improved Approximation Algorithms for the Expanding Search Problem**

with Felix Hommelsheim, Max Klimm, and Kevin Schewior  
*ESA 2023 – Proc. 31st European Symposium on Algorithms*

**Public Signals in Network Congestion Games**

with Martin Hoefer, Max Klimm, and Tim Koglin  
*EC 2022 – Proc. 23rd ACM Conference on Economics and Computation*

**Book Embedding of Nonplanar Graphs with Small Faces in Few Pages**

with Michael A. Bekos, Giordano Da Lozzo, Martin Gronemann, Fabrizio Montecchiani, and Chrysanthi N. Raftopoulou  
*SoCG 2020 – Proc. 36th International Symposium on Computational Geometry*

## Honors and scholarships

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Scholarships for summer schools	<b>Simons Laufer Mathematical Sciences Institute</b> <i>Mathematics and Computer Science of Market and Mechanism Design</i>	Berkeley, California, USA Jun - Jul 2023
	<b>Hausdorff Research Institute for Mathematics</b> <i>Combinatorial Optimization</i>	Bonn, Germany Aug 2018
	<b>Eötvös Loránd University</b> <i>Introduction to Graph Limits</i>	Budapest, Hungary Jun 2018
Student research project	<b>HYPATIA.SCIENCE research position</b> Mentor: Prof. Dr. Kevin Schewior <i>Searching in unknown environments</i>	Cologne, Germany May 2020 – Oct 2020
Further awards	Best student presentation award at the Symposium on Computational Geometry (SoCG)	2020
	German Academic Scholarship Foundation	2018 – 2021
	ERASMUS scholarship	2018 – 2019
	Admission to the mentoring programme for the top 10% of female mathematics and business mathematics students (University of Cologne)	Nov 2017
	Deutschlandstipendium (scholarship by the German Federal Government)	2015 – 2016

## Talks

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### **Optimizing Throughput and Makespan of Queuing Systems by Information Design**

Dagstuhl Seminar on Dynamic Traffic Models in Transportation Science 2024  
26th Combinatorial Optimization Workshop 2024

### **Deterministic Impartial Selection with Weights**

Klagenfurt-Berlin Workshop on Multiple Perspectives in Optimization 2024  
19th Conference on Web and Internet Economics (WINE) 2023

### **Improved Approximation Algorithms for the Expanding Search Problem**

31st European Symposium on Algorithms (ESA) 2023  
International Conference on Operations Research 2023  
Seminar talk at University of Bremen 2023  
Seminar talk at Technical University of Darmstadt 2022  
Seminar talk at Goethe-University Frankfurt 2022

### **Information Design for Congestion Games with Unknown Demand**

ICALP Workshop on Congestion Games	2023
13th Day on Computational Game Theory	2023
Math+ Spotlight Talk Series	2023

### **Public Signals in Network Congestion Games**

3rd GOR Meeting on Game Theory and Behavioral Management Science	2023
DMV Annual Meeting	2022
ACM Conference on Economics and Computation (EC)	2022

### **Book Embedding of Nonplanar Graphs with Small Faces in Few Pages**

International Symposium on Computational Geometry (SoCG)	2020
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