

# Marcel Klatt

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## Education

- 04/2018 - **Ph.D. Student, Mathematical Sciences**, *Georg-August-University - Göttingen*.  
Project: Inference for optimal transport surrogates  
Advisor: Professor Dr. Axel Munk
- 2015 - 2018 **M.S., Mathematics and Computer Science**, *Georg-August-University - Göttingen*.  
Thesis Title: Limit Distributions for Regularized Wasserstein Distances on Finite Spaces  
Honors: Master's degree is awarded with distinction.
- 2013 - 2015 **B.S., Mathematics and Computer Science**, *Georg-August-University - Göttingen*.  
2010 - 2013 **B.A., Two subject Bachelor Mathematics/Biology**, *Georg-August-University - Göttingen*.

## Research and Teaching

- 2018 - 2019 **Teaching Assistant**, *Georg-August-University - Göttingen*.  
Teaching assistant for a course titled *Probability and Measure Theory*. This included weekly exercise sessions, correcting exercise sheets, exams and giving lectures if necessary.
- 2016 - 2018 **Research Student Assistant**, *Georg-August-University - Göttingen*.  
Research in optimal transport and related topics under Professor Dr. Axel Munk with the assistance of Dr. Max Sommerfeld and Dr. Carla Taming. Worked on algorithms and their implementation as a software package in R for the computation of (regularized) Wasserstein distances and Wasserstein barycenters.
- 2012 - 2016 **Teaching Student Assistant**, *Georg-August-University - Göttingen*.  
Was a teaching student assistant for several mathematical courses titled *Calculus I/II*, *Mathematics in Biology*, *Summer schools for Calculus I*. Helped in correcting exercise sheets, exams and held weekly exercise sessions.

## Publications, Preprints and Software

- M. Klatt, A. Munk and Yoav Zemel, Limit Laws for Empirical Optimal Solutions in Stochastic Linear Programs, Preprint arXiv:2007.13473 (2020)
- M. Klatt, C. Taming and A. Munk, Empirical Regularized Optimal Transport: Statistical Theory and Applications, *SIAM Journal on Mathematics of Data Science* (2020)
- R package: *Barycenter: Regularized Wasserstein Distances and Barycenters*. The package is available at <https://CRAN.R-project.org/package=Barycenter>.

## Conferences and Talks

- 07/2020 **Participant and Speaker**, *Mathematical Bioscience Institute - Ohio (US)*.  
Attending the conference *Optimal Transport, Topological Data Analysis and Applications to Shape and Machine Learning* A talk with the title *Empirical (Regularized) Optimal Transport: Statistical Theory and Applications* was given.
- 03/2019 **Participant and Speaker**, *DAGStat Conference - Munich*.  
Attending the conference *DAGStat: Statistics under one umbrella*. A talk with the title *Empirical Regularized Optimal Transport: Statistical Theory and Applications* was given.

- 07/2018 **Participant**, *Hausdorff Center for Mathematics - Bonn*.  
Attending the summer school *Optimal Transport meets Economic Theory*.
- 06/2018 **Participant and Speaker**, *Universidad de Valladolid - Valladolid, Spain*.  
Attending the conference *Mass Transportation Theory: Opening perspectives in Statistics, Probability and Computer Science*. A talk with the title *Distributional limits for optimal transport on finite spaces* was given.
- 11/2017 **Participant**, *Georg-August-University - Göttingen*.  
Attending the conference *Statistics meets Friends: From Biophysics to inverse Problems and back*.

## Referee/Reviewer

The Annals of Statistics (AOS)  
Electronic Journal of Statistics (EJS)

## Additional Skills

Languages German (first language), English (very good knowledge)  
Computing C, C++, R (statistical programming), Matlab,  $\LaTeX$ , Git

## Activities

### Salsa Dancing.

Practising and teaching people in Salsa dancing. Travelling across Europe to attend Salsa congresses.

### Other Current Hobbies.

Soccer, Tennis and Running