

Jens Fischer

Birthday/ -place: November 20, 1992 Karlsruhe, Germany

Nationality: German

E-mail: jefischer@uni-potsdam.de

Homepage <https://jemathfischer.github.io/>

Education

04.2016 - Present

University of Potsdam

Master of Science in Mathematics

Areas of interest: Agent based modeling, Dynamics of complex systems, Moral hazard scenarios, Stochastic population dynamics, (Multivariate) Hawkes processes and applications

Introductory Research Project in Mathematics:

On Stability and Simulation of Nonlinear Hawkes Processes

Research Project in Computer Sciences:

Segregation in Networks under Stochastic Dynamics

Attended lectures in Mathematics:

- Stochastic and Deterministic Dynamical Systems
- Partial Differential Equations
- Surfaces in Analysis, Geometry and Physics
- Diffusion: Analytical and Geometric Aspects
- Bayesian Inference and Data Assimilation
- Introduction to Systems Biology

Attended lectures in Physics & Computer Sciences:

- Nichtlineare Dynamik
- Statistische Physik und Thermodynamik
- Intelligente Datenanalyse
- Randomized Network Segregation

09.2017 - 01.2018

- Exchange semester within the framework of the Erasmus+ program at the Université Lille 1, Laboratoire Paul Painlevé
- Scholarship from Labex CEMPI: Laboratoire d'Excellence Centre Européen

Attended lectures:

- Processus stochastiques - Statistiques des processus
- Introduction aux EDP non linéaires
- Statistiques
- Outils informatique en proba-stat

10.2012 - 04.2016

Karlsruhe Institute of Technology (KIT)

Carl-Dähne-Straße 10, 14469 Potsdam, Germany

+49 176 61395686

jefischer@uni-potsdam.de

Bachelor of Science in Mathematics, 3 years program
Grade: good (2.3)

Bachelor thesis:

“On the theorems of Paley-Wiener and Titchmarsh”

Grade: very good (1.3)

Supervisor: Prof. Dr. Roland Schnaubelt

Awards and Fellowships

08.2017 - 01.2018 **Labex CEMPI: Laboratoire d'Excellence Centre Européen**

Full Scholarship for a semester in Lille, France

10.2012 - Present **e-fellows.net**

Member Scholarship

Oral Presentations

14/03/2019	at Workshop of the Collège Doctoral Franco-Allemand Toulouse-Potsdam
22/02/2019	at the research seminar <i>Algorithm Engineering</i> , Hasso Plattner Institute, Potsdam
may 2018	at the research seminar <i>Mathematical Modelling and Systems Biology</i> , Potsdam
19/04/2018	at the research seminar <i>Probability Theory</i> , Potsdam
02/05/2017	at the research seminar <i>Partial Differential Equations</i> , Potsdam
june 2017	at the research seminar <i>Graph Theory</i> , Potsdam

Participation at Conferences or Workshops

13/03/19 - 15/03/19	Workshop du Collège Doctoral Franco-Allemand Toulouse-Potsdam <i>Stochastic processes and statistical machine learning II</i> , Toulouse, Speaker
14/02/18 - 16/02/18	Workshop du Collège Doctoral Franco-Allemand Toulouse-Potsdam <i>Stochastic processes and statistical machine learning I</i> , Potsdam
03/2018 et 03/2019	at Spring School 2019 de SFB 1294 Data Assimilation, Potsdam, Germany
10/18	Effective Altruism Global: London 2018 at UCL, London, UK
07/18	ISUS 2018 Karlsruhe, <i>Utility, Progress and Technology</i> at KIT, Karlsruhe, Allemagne, Poster on “AI Safety”, Contributor

Teaching

10.2016 - Present

University of Potsdam

Analysis I & II for Mathematics Bachelor of Science
Foundations of Stochastics for Master of Data Science
Tutorials and exercise classes
Preparation of exercise sheets

04.2014 - 03.2016

Karlsruhe Institut for Technology (KIT)

Mathematical Methods for Bachelor of Science in Computer Sciences
Tutorials and exercise classes

Programming Skills

Python (advanced), Scilab / Matlab (advanced)

- Simulation and Statistics for Hawkes Process
- Bayesian Data Assimilation
- Analysis of European Union Water Use data
(cf. <https://github.com/jeMATHfischer>)

20.-22.04.18 Data Science for Social Good Berlin

Hackathon hosted by DSSG Berlin

Project: Time series analysis of donations;

Role: Data Analyst

25.-27.05.18 HackHPI 2018

Hackathon at the Hasso-Plattner Institute Potsdam

Project: Analysis and visualization of groundwater levels throughout the EU;

Role: Data Analyst

19.10.-21.10.18 d-fine Hackathon 2018

Hackathon hosted by d-fine GmbH

Project: Analysis of pollution levels in a german metropolis;

Role: Data Analyst

Language Skills

German (C2), English (C1), French (B2)

Extracurricular Activities

10.2016 - Present

Supporter of the Effective Altruism movement

07.07.18 - 09.07.18, "Joy and suffering - What makes for sentience", joint workshop with juFORUM e.V., Project Leader

02.18 - Present, Local Group Organizer

04.18 - 07.18, Seminar "Rationality and Empathy", Seminar Advisor

*Starting 04.19, Seminar "Rationality and Empathy", Seminar Advisor
(accepted and funded by the University of Potsdam)*

12.2013 - Present

Member of the scientific youth organization

"Deutsches Jungforschernetzwerk – juFORUM e.V."

Organisation of regional and interregional events and workshops