

Dr.-Ing. Debdas Paul

Postdoctoral researcher

computer science engineer, computational biologist



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RESEARCH EXPERIENCE

- 06/2020 – present **Postdoctoral researcher** [University Hospital, Tübingen, Germany](#)
- machine and deep learning based integration of single cell flow-cytometry and radiomics data to identify and monitor cancer-immunotherapy responses.
 - Group leader: Prof. Dr. Manfred Claassen
- Python / Keras & TensorFlow / cuML / CNN / VAE / Cross-domain learning
- 02/2019 – 05/2020 **Postdoctoral researcher** [The Max Planck Institute for Biophysical Chemistry, Göttingen, Germany](#)
- Contributed to the development of [QPuB](#) - a tool that employs Bayesian statistical inference based on MCMC sampling to learn the posterior distributions of the conversion factors for the peptide products without further experimentation.
 - Group leader: Dr. Juliane Liepe
- R / MCMC / Bayesian inference / Mass spectrometry / Immunology
- 07/2017 – 10/2017 **Visiting researcher** [Harvard Medical School](#)
- Developed a rule-based modelling approach based on the [kappa-language](#) framework for gene regulation.
 - Collaborator: Prof. Jeremy Gunawardena
- Python / Kappa - a rule-based language / stochastic simulation
- 11/2014 – 12/2018 **Doctoral researcher** [Institute for Systems Theory and Automatic Control](#)
- explored the origin of robustness and its characterization in biological signaling networks as well as in gene regulation.
 - Supervisor: Prof. Dr. rer. nat. Nicole Radde
- MATLAB / Systems & control theory / Systems biology / Mathematical modeling & Stochastic simulation

EDUCATION

- 2014 – 2019 **Dr.-Ing.** [University of Stuttgart, Germany](#)
Systems theory, Systems Biology, Magna cum Laude
- 2012 – 2014 **Master of Science & Master of Science (Technology)** [KTH, Sweden & Aalto University, Finland](#)
Computational Systems Biology, Distinction
- 2009 – 2011 **Master of Engineering** [Jadavpur University, India](#)
Computer Science & Engineering, First class
- 2005 – 2009 **Bachelor of Technology** [West Bengal University of Technology, India](#)
Computer Science & Engineering, First class

KEY PROGRAMMING SKILLS



MACHINE LEARNING FRAMEWORKS

TensorFlow, Keras, Scikit-learn

HONORS & AWARDS

- European Union's - Erasmus Mundus Fellowship (EU equivalent of Fullbright)
- Bilateral Mobility Grant, Govt. of Republic of Slovenia

LANGUAGES

• German - A1 (Goethe-Zertifikat) • English - full working proficiency • Bengali - native