

Apratim Bhattacharyya

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Date of Birth: 14.12.1991



RESEARCH INTERESTS

• Probabilistic Modelling. • Bayesian Learning. • Latent Variable Models.

CURRENT POSITION

<i>July 2016 - current</i> <small>(expected: June 2021)</small>	PhD Student, MAX PLANCK INSTITUTE FOR INFORMATICS Supervisors: Dr. Bernt Schiele and Dr. Mario Fritz Topic: Intersection of probabilistic and deep learning methods.
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PROFESSIONAL EXPERIENCE

<i>April-July 2019</i>	PhD Intern, BOSCH CENTER FOR ARTIFICIAL INTELLIGENCE Group: Environmental Understanding and Decision Making Topic: Anticipation for Autonomous Driving .
<i>May-July 2013</i>	Intern, TU DRESDEN Supervisor: <i>Dr. Yue Ma</i> Topic: Multi-label Classification over Ontologies

EDUCATION

SEPTEMBER 2016	Master of Science in Informatics, Saarland University, Germany GPA: 1.1, Honor's Degree (Best GPA: 1) Thesis: "Efficiently Summarising Sequences with Rich and Interleaving Patterns." Advisor: Dr. Jilles Vreeken
MAY 2014	Bachelor of TECHNOLOGY in Computer Engineering, National Institute of Technology, Karnataka, India GPA: 9.28 (Best GPA: 10)

SCHOLARSHIPS

2014	Saarbrücken Graduate School of Computer Science (Preparatory Phase).
2014	Campus France Charpak scholarship (Masters).
2014	European Master's Program in Computational Logic Grant.
2013	DAAD - Working Internships in Science and Technology Scholarship.
2010	All India Engineering Entrance Examination: In the top 1%.

PROFESSIONAL ACTIVITIES

• Reviewer: *ICML 2020, NeurIPS 2019-20, ICCV 2019, CVPR 2018-21, TPAMI, AAAI 2019-21, ICLR 2021*

TEACHING

- Tutor: *Machine Learning Core Course (Stammvorlesung)*, Winter Semester 2018-19.
- Tutor: *Machine Learning Core Course (Stammvorlesung)*, Winter Semester 2019-20.
- Tutor: *Probabilistic Graphical Models*, Winter Semester 2020-21.

PUBLICATIONS

- 2020 HAAR WAVELET BASED BLOCK AUTOREGRESSIVE FLOWS FOR TRAJECTORIES
A. Bhattacharyya, C. Straehle, M. Fritz and B. Schiele, GCPR, 2020 **(oral)**
- 2020 NORMALIZING FLOWS WITH MULTI-SCALE AUTOREGRESSIVE PRIORS
A. Bhattacharyya, S. Mahajan*, M. Fritz, B. Schiele and S. Roth*, CVPR, 2020
- 2019 UPDATES-LEAK: DATA SET INFERENCE AND RECONSTRUCTION ATTACKS IN ONLINE LEARNING
A. Salem, A. Bhattacharyya, M. Backes, M. Fritz and Y. Zhang, USENIX Security, 2020
- 2019 BAYESIAN PREDICTION OF FUTURE STREET SCENES USING SYNTHETIC LIKELIHOODS
A. Bhattacharyya, M. Fritz and B. Schiele, ICLR 2019
- 2018 ACCURATE AND DIVERSE SAMPLING OF SEQUENCES BASED ON A “BEST OF MANY” SAMPLE OBJECTIVE
A. Bhattacharyya, B. Schiele and M. Fritz, CVPR 2018 **(oral)**
- 2018 LONG-TERM ON-BOARD PREDICTION OF PEOPLE IN TRAFFIC SCENES UNDER UNCERTAINTY
A. Bhattacharyya, M. Fritz and B. Schiele, CVPR 2018
- 2018 LONG TERM IMAGE BOUNDARY PREDICTION
A. Bhattacharyya, M. Malinowski, B. Schiele and M. Fritz, AAAI 2018
- 2017 EFFICIENTLY SUMMARISING EVENT SEQUENCES WITH RICH INTERLEAVING PATTERNS
A. Bhattacharyya and J. Vreeken, SDM 2017
- 2017 LONG-TERM ON-BOARD PREDICTION OF PEDESTRIANS IN TRAFFIC SCENES
A. Bhattacharyya, M. Fritz and B. Schiele, CoRL 2017 Workshop track.
- 2016 LONG TERM BOUNDARY EXTRAPOLATION FOR DETERMINISTIC MOTION
A. Bhattacharyya, M. Malinowski and M. Fritz, NIPS Workshop on Intuitive Physics, 2016

LANGUAGE SKILLS

- English: *Fluent*. • German: *B1*. • Assamese: *Native*. • Hindi: *Native*.

OTHER INTERESTS

- Sports: *Running, Badminton, Hiking*. • Music: *Piano*. • Literature: *Science Fiction*.