Leena Chennuru Vankadara

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Education

International Max Planck Research School for Intelligent Systems
PhD, Machine learning, 2018 - Present.

- **Research interests.** My research interests lie broadly in the theoretical analysis of learning problems and algorithms. Currently, I am interested in studying the statistical-computational trade-offs exhibited by kernel methods and their information-theoretic limits under parameteric as well as non-parameteric assumptions.
- **Advisors.** Prof. Debarghya Ghoshdastidar, Prof. Dr. Ulrike von Luxburg.

University of Tübingen
Master thesis, 2017, **Advisor.** Prof. Dr. Ulrike von Luxburg Grade 1.0/1.0.

University of Hamburg
M.S, Intelligent Adaptive Systems, 2014 - 2017, Grade:1.10/1.0.

BITS(Birla Institute of Technology and Sciences) Pilani
Bachelor of Science, Mathematics, 2007 - 2012, Grade. 8.85/10.
Bachelor of Engineering, Mechanical Engineering, 2007 - 2012, Grade. 7.22/10.

Pre-prints

Leena Chennuru Vankadara, Siavash Haghiri, Michael Lohaus, Faiz Ul Wahab, Ulrike von Luxburg, Insights into ordinal embedding algorithms: a systematic evaluation. **Under review** in 24th International Conference on Artificial Intelligence and Statistics **(AISTATS 2021)**.

Mahalakshmi Sabanayagam, **Leena Chennuru Vankadara**, Debarghya Ghoshdastidar. Consistency of Clustering and Two-sample Testing of Graphons. **Under review** in 24th International Conference on Artificial Intelligence and Statistics **(AISTATS 2021)**.

Publications

Leena Chennuru Vankadara, Sebastian Brodt, Ulrike von Luxburg, Debarghya Ghoshdastidar. Recovery Guarantees for Kernel-based Clustering under Non-parametric Mixture Models. In 24th International Conference on Artificial Intelligence and Statistics **(Oral presentation. 3% (48) of total submissions. AISTATS 2021)**.

Leena Chennuru Vankadara, Debarghya Ghoshdastidar. On the optimality of kernels for high-dimensional clustering. (To appear) In 23rd International Conference on Artificial Intelligence and Statistics **(AISTATS 2020)**.

Leena Chennuru Vankadara, Ulrike von Luxburg. Measures of distortion for machine learning. In 32nd Conference on Neural Information Processing Systems **(NeurIPS 2018)**.

Iris Wieser, **Leena Chennuru Vankadara**, et al. A Robotic home assistant with memory aid functionality. In 39th German Conference on Artificial Intelligence **(KI 2016)**.

EXPERIENCE

Amazon
Research Scientist Intern (Causality Lab). 2020

Max Plank Institute for Intelligent Systems, Tübingen
Research Intern (Statistical Learning Theory group). 2018

Cognitive Systems, University of Hamburg
Student Assistant, Writer identification in Manuscripts and creation of a web based, interactive image processing tool. 2015 - 2017

WTM, University of Hamburg
Research Assistant, Creation of simulated interactive environments for experimentation in object tracking, sound localization and gesture recognition. 2015

CINACS, University of Hamburg
Student Assistant, Design and development of haptic maps. 2014 - 2015

Teaching Experience

Department of Computer Science, University of Tübingen
Teaching Assistant for **Machine learning, theory and algorithms** 2017 - 2018

- Involved creating weekly assignments, grading the submissions and conducting tutorial sessions.

Department of Mathematics, BITS Pilani
Teaching Assistant for the course **Real Analysis** 2011

- Involved conducting tutorials and support in consultation hour.

Work Experience

ASCI, Hyderabad, India.
Back-end and front-end developer 2011 - 2012

Community Service

- Reviewing for ICML, AISTATS, NeurIPS, IJCAI.

Other experiences

Volunteer for Aam Aadmi Party, India.
Involved campaigning for Yogendra Yadav (Gurgaon constituency) in the 2014 Indian general elections. 2013 - 2014

Civic education, Srirams IAS Academy, Delhi, India.
Extensively studied Indian Economy, Polity, History, Geography. 2012 - 2013

Achievements

- Top of the class in many of the Department (Mathematics) subjects and all the elective courses in the Bachelor's program.

- State level rank holder in the Indian National Mathematics Olympiad.
- National runner up in the Golden Design Challenge for the design of a high quality water purification system (Indian Institute of Technology, Madras).
- National finalist in a design competition for the design of an Automated car parking system. (Indian Institute of Technology, Bombay)
- State level rank holder in the Dr. J.V Rao Talent Search Examination.
- Scholarship for a fully funded Secondary Education by Shri Kalyana Chakravarthy Trust (60000 INR)

Extra Curriculars

- Quality manager of the Placement team, BITS PILANI.
- Headed the Venue management team of QUARK 09 (Technical festival of the University), BITS PILANI.
- Member of the Information management team, QUARK 08 (Technical festival of the University), BITS PILANI.
- Member of the Core committee of the Environmental Protection and Awareness Club, BITS PILANI.
- An Award Winning Member of the 14th National Jamboree of National Scouts and Guides.

Languages

Human: Telugu, Hindi and English
Machine: PYTHON, MATLAB