Oinam Nganba Meetei

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Summary

- Trained as a physicist, looking for new opportunities in data science.
- More than six years of experience in building models and solving problems with large data sets.
- Skilled in various statistical methods and computational tools.
- Strong faculty for critical thinking with ability to see through projects from beginning till the end.
- Adept in working in large collaborative groups.

Education

- PhD in Condensed Matter Physics, The Ohio State University (2014) (GPA 4.0/4.0)
- MS in Physics, Indian Institute of Science, India (2008)

Technical Skills

Programming:	Python, C++, Shell Scripting, R, Basic SQL
Software Packages:	Mathematica, MATLAB, Octave, Latex, ITENSOR, TRIQS.
Quantitative Methods:	Machine Learning (Regression, Classification, Optimization), Monte Carlo, Maximum Entropy, Statistical Methods

Achievements

- The Ohio State University **Presidential Fellowship** (2013) for outstanding research.
- **ICAM-I2CAM Junior Exchange Award** (2012) for furthering collaborative research.
- Fellow of **KVPY or Junior Scientist Fellowship Program** (2001-2007) awarded by Government of India for excellence in science.
- 7 **published** papers, 4 **invited** talks and 8 **contributed** talks at international conferences

Experience

Post Doctoral Researcher, Cornell University (2014-present)

- Model competing order in cuprates that will help understand high temperature superconductivity.
- Parameter optimization with **Monte Carlo** method.
- Use large **computer clusters** to **automate** scans in large parameter space.

Graduate Research Assistant & Fellow, The Ohio State University (2008-2014)

Worked on understanding material properties that will help in the search for new and exciting materials. Predicted a novel ferromagnet in strong spin-orbit coupled materials that has led to active experimental research.

- **Built models** and performed **linear/non-linear regression** to fit models to data.
- Used **maximum entropy** to extract statistically significant **Bayesian inferences**.
- Worked in large multi-department **collaborative teams** as part of the Center for Emergent Materials and contributed as lead author in multiple papers.

Mentoring (2012-present)

- Guided undergraduate students through summer research.
- Helped junior graduate students in devising research projects and learn advanced technical skills.

Publications

1. O. Erten, ***O. Nganba Meetei***, A. Mukherjee, M. Randeria, N. Trivedi and P. Woodward
   Phys. Rev. Lett. 107, 257201 (2011).
2. ***O. Nganba Meetei***, O. Erten, M. Randeria, N. Trivedi and P. Woodward
   Phys. Rev. Lett. 110, 087203 (2013).
3. ***O. Nganba Meetei***, O. Erten, A. Mukherjee, M. Randeria, N. Trivedi and P. Woodward
   Phys. Rev. B 87, 165104 (2013).
4. O. Erten, ***O. Nganba Meetei***, A. Mukherjee, M. Randeria, N. Trivedi and P. Woodward
   Phys. Rev. B 87, 165105 (2013).
5. E. Lahoud, ***O. Nganba Meetei***, K.B. Chaska, A. Kanigel and N. Trivedi
   Phys. Rev. Lett. 112, 206402 (2014).
6. ***O. Nganba Meetei*** and A. Anandakrishnan
   arXiv:1406.0500 (2014).
7. ***O. Nganba Meetei***, William S. Cole, Mohit Randeria and Nandini Trivedi
   Phys. Rev. B 91, 054412 (2015)

Other Activities

- American Physical Society, Member (2008-present)
- Physics Outreach, Volunteer (2008-present)
- Association for India's Development, Volunteer (2008-2014)
- Physics Department Association, Indian Institute of Science, Secretary (2007-2008)