

IRIS STONE

Princeton Neuroscience Institute A08
Princeton, NJ 08544
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RESEARCH INTERESTS

Latent variable models, Bayesian inference, neural networks, biophysical and statistical modeling of neural data, decision-making, memory, social cognition & behavior

EDUCATION

PRINCETON UNIVERSITY AUG 2018 – PRESENT
PhD in Neuroscience, Advisor: TBD

GEORGE MASON UNIVERSITY (Honors College) AUG 2013 – DEC 2017
B.S. in Physics, *Summa Cum Laude* (GPA: 3.97 out of 4.0)

PRE-DOCTORAL RESEARCH EXPERIENCE

W.M KECK CENTER FOR NEUROPHYSICS JUN 2017 – AUG 2017
University of California Los Angeles, NSF REU Program
Advisor: Mayank Mehta

QUANTUM MATERIALS CHARACTERIZATION LAB NOV 2014 – APR 2018
George Mason University, OSCAR URSP Program
Advisor: Patrick Vora

PUBLICATIONS

Stone I, Melis S, Smith R, Dev P, Keuren E, Vora P. *Raman signatures of charge transfer in PTZ-TCNQ co-crystals*. [In prep].

Oliver S, Beams R, Kryluk S, Kalish I, Singh A, Bruma A, Tavazza F, Joshi J, **Stone I**, Stranick S, Davydov A, Vora P. (2017). *The structural phases and vibrational properties of $Mo_{1-x}W_xTe_2$ alloys*. 2D Materials. 4(4):045088.

Joshi J, **Stone I**, Beams R, Krylyuk S, Kalish I, Davydov A, Vora P. (2016). *Phonon anharmonicity in bulk T_d - $MoTe_2$* . Applied Physics Letters. 109(3):031903.

PRESENTATIONS

Stone I. *Dependence of high frequency neural oscillations on running speed*. Talk presented: UCLA 2017 Summer REU Symposium. 2017 Aug. 25; Los Angeles, CA.

Stone I, Keuren E, Vora P. *The effect of stoichiometry on the growth and optical properties of PTZ-TCNQ charge transfer crystals*. Poster presented: OSCAR 2016 Summer Celebration of Student Scholarship.

Stone I, Joshi J, Melis S, Smith R, Keuren E, Vora P. *The effect of morphology and stoichiometry on the photoluminescence of PTZ-TCNQ charge transfer crystals*. Talk presented: American Physical Society 2016 March Meeting.

Stone I. *Organic electronics based on charge transfer crystals*. Talk presented: Department of Physics and Astronomy 2015 Undergraduate Research Colloquium.

Stone I, Joshi J, Keuren E, Vora P. *Optoelectronic properties of PTZ-TCNQ charge transfer crystals*. Poster presented: OSCAR 2015 Summer Celebration of Student Scholarship.

AWARDS & HONORS

G. Wallace Ruckert '30 Fellowship Fund Recipient	2018
Outstanding Graduating Senior Award	2018
NSF Graduate Research Fellowship Program (GRFP) Honorable Mention	2018
Outstanding Rising Senior Award	2017
Goldwater Scholarship	2017
Outstanding Undergraduate Research Award	2016
OSCAR Student Excellence Award for Research	2016
OSCAR URSP Intensive Research Grant	2016
Honors College Schwartzstein Summer Research Award	2016
American Physical Society Ken Haas Outstanding Student Paper Runner-Up	2016
OSCAR URSP Traditional Research Grant	2015

ACTIVITIES & OUTREACH

GRADUATE STUDENT GOVERNMENT <i>Neuroscience Representative</i>	MAR 2019 – PRESENT
PRINCETON CITIZEN SCIENTISTS <i>Member</i>	AUG 2018 – PRESENT
SCIENCE IN THE CLASSROOM (AAAS) <i>Contributor, "What Flies Can Teach Us about Searching the Web"</i>	JUN 2018 – SEP 2018
OFFICE OF SCHOLARSHIP, CREATIVE ACTIVITIES, & RESEARCH <i>OSCAR Research Fellow</i>	AUG 2016 – MAY 2017

PROFESSIONAL EXPERIENCE

BLOOMROCK WRITING <i>Founder, Owner, & Executive Editor</i>	APR 2014 – JUN 2018
GEORGE MASON UNIVERSITY DEPARTMENT OF MATHEMATICS <i>Learning Assistant for MATH 105: Pre-calculus</i>	AUG 2015 – DEC 2015

SKILLS

Programming Proficient: MATLAB, Python Familiar: HTML/CSS, Mathematica
Computation Bayesian inference, latent variable models, optimization techniques, statistical analysis, automation & instrument control, web scraping & data mining

PROFESSIONAL MEMBERSHIPS

Society for Neuroscience	2018 – PRESENT
Sigma Xi: The Scientific Research Honors Society	2017 - PRESENT
The Honors Society of Phi Kappa Phi	2017 - PRESENT