

SEEKING

The Hermundstad Lab is seeking exceptional postdoctoral researchers and PhD students to work in a highly collaborative and interdisciplinary group at HHMI's Janelia Research Campus

JOB SUMMARY

Our group develops theoretical and computational approaches for studying information processing in neural systems, with the goal of understanding how sensory signals are encoded in neural populations and used to guide behavior. Successful candidates will have the opportunity to collaborate broadly with other scientists at Janelia, and will have support to develop an original research program that aligns with their interests.

We work closely with other theorists and experimentalists to develop and test organizing principles of neural structure and function. Examples of ongoing work include:

- normative theories of perception
- collective coding in neural populations
- invariance of neural representations across sensory domains
- relationships between network structure and dynamics
- modeling and statistical analysis of natural signals

QUALIFICATIONS

- strong background in physics, applied math, computer science, computational neuroscience, or related field
- interest in applying quantitative expertise to new problems in biology and neuroscience
- experience with one or more of the following: Python, Matlab, C/C++, or similar language
- experience with data analysis
- ability to work independently and support collaborative, interdisciplinary research
- strong communication skills

TO APPLY

✉ hermundstada@janelia.hhmi.org

please send: CV, publication list, brief description of research experience, and contact information for three references

Janelia Research Campus is a pioneering research center located near Washington, D.C., where scientists pursue fundamental questions in neuroscience and imaging. The Howard Hughes Medical Institute (HHMI) launched Janelia in 2006, establishing an intellectually distinctive environment for scientists to do creative, collaborative, hands-on work.

- ① Janelia Research Campus:
janelia.org/about-us
- ① Hermundstad Lab:
janelia.org/lab/hermundstad-lab