

We seek multiple postdoctoral team members for work in Statistical Inference in Biophysics. Start date is flexible.

The successful candidate will work with Prof. Pressé to develop strategies to infer dynamical models of biological processes from imaging data sets--with resolution down to the single molecule level--inside living systems. Briefly, our goal is to use tools of Computational Statistics and Neural Nets to unravel: gene transcriptional network dynamics; single molecule dynamics especially in crowded environments; as well as protein and RNA interactions leading up to complex assembly kinetics and function.

We infer models from state-of-the-art imaging data sets in direct collaboration with experiments. As such, our work fosters cross-disciplinary knowledge of optics, computational statistics, numerical analysis, photophysics and biophysics. This postdoc hired here will collaborate closely with experimentalists and graduate students.

There is no teaching requirement. Rather, postdocs will focus their effort entirely on research to bolster their academic package. Teaching and training experience will be obtained from mentoring undergraduates and graduate students in their respective projects.

Knowledge in the following areas is helpful: Computational Statistics, Python/Matlab, Stochastic Processes, Machine Learning.

Strong programming experience is required.

Group website: <http://statphysbio.physics.asu.edu>

To apply, please send electronically to spresse@asu.edu the following materials: (a) a cover letter, (b) a CV including a full publication list, (c) the names and contact details of three references. For more information about the position, please contact spresse@asu.edu.

The applications will be reviewed as they are received.

A background check is required for employment.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. <https://www.asu.edu/aad/manuals/acd/acd401.html>. <https://www.asu.edu/titleIX>.

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU's Annual Security and Fire Safety Report is available online at <https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf>. You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456.