

Stanford



Piere Rodriguez Aliaga

Postdoctoral Scholar, Biology

Bio

HONORS AND AWARDS

- Postdoctoral fellowship, Hereditary Disease Foundation

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair of the organizing committee, Biophysical Society Thematic Meeting: "Revisiting the Central Dogma at the Single Molecule Level" (2018 - 2019)

PROFESSIONAL EDUCATION

- Licenciado, Universidad Peruana Cayetano Heredia (2011)
- Bachelor of Science, Universidad Peruana Cayetano Heredia (2008)
- Doctor of Philosophy, University of California Berkeley (2016)

STANFORD ADVISORS

- Judith Frydman, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Dissecting the structural basis of Huntingtin pathogenesis: one molecule at the time**
Rodriguez-Aliaga, P., Sosa, R. P., Bustamante, C., Frydman, J.
CELL PRESS.2022: 22
- **Knots can impair protein degradation by ATP-dependent proteases.** *Proceedings of the National Academy of Sciences of the United States of America*
San Martín, Á. n., Rodriguez-Aliaga, P. n., Molina, J. A., Martin, A. n., Bustamante, C. n., Baez, M. n.
2017; 114 (37): 9864–69
- **Substrate-translocating loops regulate mechanochemical coupling and power production in AAA plus protease C1pXP** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*
Rodriguez-Aliaga, P., Ramirez, L., Kim, F., Bustamante, C., Martin, A.
2016; 23 (11): 974-981
- **Protein denaturation at a single-molecule level: the effect of nonpolar environments and its implications on the unfolding mechanism by proteases.** *Nanoscale*
Cheng, B., Wu, S., Liu, S., Rodriguez-Aliaga, P., Yu, J., Cui, S.
2015; 7 (7): 2970-7
- **New insights into the regulatory mechanisms of ppGpp and DksA on Escherichia coli RNA polymerase–promoter complex** *Nucleic Acids Research*
Doniselli*, N., Rodriguez-Aliaga*, P., Amidani, D., Bardales, J. A., Bustamante, C., Guerra, D. G., Rivetti, C.
2015; 43 (10): 5249–5262

- **The ClpXP Protease Unfolds Substrates Using a Constant Rate of Pulling but Different Gears** *CELL*
Sen, M., Maillard, R. A., Nyquist, K., Rodriguez-Aliaga, P., Presse, S., Martin, A., Bustamante, C.
2013; 155 (3): 636-646