

# Stanford

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## Aleena Patel

Postdoctoral Scholar, Developmental Biology

### Bio

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#### HONORS AND AWARDS

- Helen Hay Whitney-AGBT Postdoctoral Fellowship, Helen Hay Whitney Foundation & AGBT (2023-2026)
- Walter V. and Idun Berry Postdoctoral Fellowship, Stanford School of Medicine (2022-2023)
- Dean's Postdoctoral Fellowship, Stanford School of Medicine (2021-2022)
- Graduate Research Fellowship, National Science Foundation (2017-2020)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Princeton University (2021)
- Master of Arts, Princeton University (2017)
- Bachelor of Science, California Institute of Technology (Caltech) , Bioengineering (2015)

#### STANFORD ADVISORS

- Alistair Boettiger, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### LAB AFFILIATIONS

- Alistair Boettiger (4/19/2021)

### Publications

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#### PUBLICATIONS

- **Disrupted developmental signaling induces novel transcriptional states.** *Proceedings of the National Academy of Sciences of the United States of America*  
Patel, A. L., Gonzalez, V., Menon, T., Shvartsman, S. Y., Burdine, R. D., Avdeeva, M.  
2025; 122 (43): e2418351122
- **ERK signaling dissolves ERF repression condensates in living embryos** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Weaver, C. J., Patel, A. L., Shvartsman, S. Y., Levine, M. S., Treen, N.  
2022; 119 (9)
- **Capicua is a fast-acting transcriptional brake** *CURRENT BIOLOGY*  
Patel, A. L., Zhang, L., Keenan, S. E., Rushlow, C. A., Fradin, C., Shvartsman, S. Y.  
2021; 31 (16): 3639-+

- **From complex datasets to predictive models of embryonic development** *NATURE COMPUTATIONAL SCIENCE*  
Dutta, S., Patel, A. L., Keenan, S. E., Shvartsman, S. Y.  
2021; 1: 516-520
- **From complex datasets to predictive models of embryonic development.** *Nature computational science*  
Dutta, S., Patel, A. L., Keenan, S. E., Shvartsman, S. Y.  
2021; 1 (8): 516-520
- **Optimizing photoswitchable MEK** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Patel, A. L., Yeung, E., McGuire, S. E., Wu, A. Y., Toettcher, J. E., Burdine, R. D., Shvartsman, S. Y.  
2019; 116 (51): 25756-25763
- **Outstanding questions in developmental ERK signaling** *DEVELOPMENT*  
Patel, A. L., Shvartsman, S. Y.  
2018; 145 (14)