

# Stanford

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## Sasha Zemsky

Ph.D. Student in Biophysics, admitted Autumn 2017

### Publications

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#### PUBLICATIONS

- **Motor crosslinking augments elasticity in active nematics.** *Soft matter*

Redford, S. A., Colen, J., Shivers, J. L., Zemsky, S., Molaei, M., Floyd, C., Ruijgrok, P. V., Vitelli, V., Bryant, Z., Dinner, A. R., Gardel, M. L.  
2024

- **Exploitation of Engineered Light-Switchable Myosin XI for Nanotechnological Applications.** *ACS nano*

Salhotra, A., Rahman, M. A., Ruijgrok, P. V., Meinecke, C. R., Ušaj, M., Zemsky, S., Lindberg, F. W., Surendiran, P., Lyttleton, R. W., Linke, H., Korten, T.,  
Bryant, Z., Måansson, et al  
2023

- **Design and characterization of optically controllable filamentous myosins**

Zemsky, S., Ruijgrok, P. V., Bryant, Z.  
CELL PRESS.2022: 292A

- **Optical control of fast and processive engineered myosins in vitro and in living cells.** *Nature chemical biology*

Ruijgrok, P. V., Ghosh, R. P., Zemsky, S. n., Nakamura, M. n., Gong, R. n., Ning, L. n., Chen, R. n., Vachharajani, V. T., Chu, A. E., Anand, N. n., Eguchi, R. R.,  
Huang, P. S., Lin, et al  
2021

- **Spatiotemporal control of liquid crystal structure and dynamics through activity patterning.** *Nature materials*

Zhang, R. n., Redford, S. A., Ruijgrok, P. V., Kumar, N. n., Mozaffari, A. n., Zemsky, S. n., Dinner, A. R., Vitelli, V. n., Bryant, Z. n., Gardel, M. L., de Pablo, J. J.  
2021

- **Optical Control of Fast and Processive Engineered Myosins In Vitro and in Living Cells**

Ruijgrok, P. V., Ghosh, R. P., Nakamura, M., Zemsky, S., Chen, R., Vachharajani, V., Liphardt, J. T., Bryant, Z.  
CELL PRESS.2019: 259A