

# Stanford

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## Ehsan Rezaei

Postdoctoral Scholar, Molecular and Cellular Physiology

### Bio

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#### HONORS AND AWARDS

- School of Medicine Dean's Postdoctoral Fellowship, Stanford (2018)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Nebraska Lincoln (2016)
- Master of Science, Linkoping University (2010)
- Bachelor of Science, Islamic Azad University (2003)

#### LINKS

- "Graduate Student Awards 2016": <https://engineering.unl.edu/graduate-programs/graduate-student-recognition/>
- Polyhydroxyalkanoates (PHAs) crystallization: <https://ncmn.unl.edu/smcf/research-images>
- "Nuclei": <https://ncmn.unl.edu/nano-art>
- "Interview with The Daily Nebraska": [http://www.dailynebraskan.com/arts\\_and\\_entertainment/nanoart-combines-science-and-art-at-unl-s-innovation-campus/article\\_ae806f64-a498-11e6-b810-635b9aaa5604.html](http://www.dailynebraskan.com/arts_and_entertainment/nanoart-combines-science-and-art-at-unl-s-innovation-campus/article_ae806f64-a498-11e6-b810-635b9aaa5604.html)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The general approach will be to develop AFM methods that enable characterization of the mechanical properties (viscoelastic properties) of the tissues that compromise skin-neuron composites responsible for touch sensation and to build on these experimental results to develop computational models that recapitulate the relevant properties of each component and of the composite tissue as a whole.

### Publications

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#### PUBLICATIONS

- **Analytical modeling and experimental verification for vibration of piezoelectric U-shaped AFM incorporating thermal loading and surface effect** *WAVES IN RANDOM AND COMPLEX MEDIA*  
Namvar, M., Ghadiri, M., Rezaei, E.  
2020; 30 (2): 269–91