

# Stanford

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## Alexandra Chatzikalymniou

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### Bio

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#### STANFORD ADVISORS

- Ivan Soltesz, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Linking minimal and detailed models of CA1 microcircuits reveals how theta rhythms emerge and their frequencies controlled *HIPPOCAMPUS***  
Chatzikalymniou, A., Gumus, M., Skinner, F. K.  
2021
- **A Hypothesis for Theta Rhythm Frequency Control in CA1 Microcircuits *FRONTIERS IN NEURAL CIRCUITS***  
Skinner, F. K., Rich, S., Lunyov, A. R., Lefebvre, J., Chatzikalymniou, A. P.  
2021; 15: 643360
- **Alzheimer's Disease: Rhythms, Local Circuits, and Model-Experiment Interactions *MULTISCALE MODELS OF BRAIN DISORDERS***  
Skinner, F. K., Chatzikalymniou, A., Cutsuridis  
2019; 13: 149-156
- **Deciphering the Contribution of Oriens-Lacunosum/Moleculare (OLM) Cells to Intrinsic # Rhythms Using Biophysical Local Field Potential (LFP) Models *eNeuro***  
Chatzikalymniou, A. P., Skinner, F. K.  
2018
- **Combining Theory, Model, and Experiment to Explain How Intrinsic Theta Rhythms Are Generated in an In Vitro Whole Hippocampus Preparation without Oscillatory Inputs *ENEURO***  
Ferguson, K. A., Chatzikalymniou, A. P., Skinner, F. K.  
2017; 4 (4)
- **Oscillatory Dynamics of Brain Microcircuits *Modeling Perspectives and Neurological Disease Considerations***  
Skinner, F., Chatzikalymniou, A.  
2017