

# ▶ Matthew Clapp

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## Education and Training

- ▶ Doctoral student  
Program in Neural Computation  
Carnegie Mellon University
- ▶ Bachelor of Science, May 2019  
Biomedical Engineering  
University of South Carolina Honors College
- ▶ CMU-Pitt Undergraduate Training in Computational Neuroscience, Summer 2017

## Academic Honors

- ▶ National Merit Scholarship

## Research Experiences

- ▶ Modeling the effects of pathway balance on decision-making in the basal-ganglia.  
Carnegie Mellon University, Summer 2017 – Current  
Mentor: Dr. Timothy Verstynen
- ▶ Arterial calcium quantification and risk stratification for femoral endarterectomies.  
University of South Carolina, Fall 2017 – Fall 2018  
Mentor: Dr. Tarek Shazly

## Publications and Posters

- ▶ Paper  
“Reward-driven changes in striatal pathway competition shape evidence evaluation in decision-making.”  
K Dunovan, C Vich, M Clapp, J Rubin, T Verstynen.  
PLOS Computational Biology, 6 May 2019.
- ▶ Poster  
“Dopaminergic changes in striatal pathway competition modify specific decision parameters.”  
K Dunovan, C Vich, M Clapp, J Rubin, T Verstynen.  
CoSyNe, 2018.
- ▶ Essay  
“Funding our Future: Reducing Educational Inequality”  
Writing South Carolina – Volume 2. The University of South Carolina Press, 2017.

## Organizations

- ▶ Phi Beta Kappa, inducted Spring 2018
- ▶ Tau Beta Pi, inducted Spring 2018

## Extracurriculars

- ▶ Artists in Residence Program, University of South Carolina, Fall 2018 – Spring 2019