

# OWEN MARTIN

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## EDUCATION

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**Ph.D in Computer Science**, University of Colorado Boulder August 2020 -  
Area of Concentration: Complex Systems  
Advised by Dr. Orit Peleg  
GPA: 3.89

**BS in Computer Science**, Tufts University August 2013 - May 2017  
GPA: 3.24

## TEACHING EXPERIENCE

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**Graduate Teaching Assistant** August 2020 - May 2022  
University of Colorado Boulder  
Courses: Data Structures

**Undergraduate Teaching Assistant** January 2015 - May 2017  
Tufts University  
Courses: Data Structures

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, Matlab, C++, R, Processing
<b>Frameworks</b>	PyTorch, Keras, pandas, tidyverse, scikit-learn
<b>Tools</b>	Git, Docker, Azure, AzureML

## PUBLICATIONS

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**Emergent periodicity in the collective synchronous flashes of fireflies** March 2022  
*R. Sarfati, O. Martin, K. Joshi, S. Iyer-Biswas, O. Peleg.*  
In preprint, bioRxiv

## PRESENTATIONS

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**Exploring Synchronization in Firefly-LED systems** April 2022  
*O. Martin*  
Aspen Center for Physics Dynamics of Living Systems Conference

**Synchronization Dynamics of Firefly-LED systems.** March 2022  
*O. Martin, R. Sarfati, J. Hayes, O. Peleg.*  
APS March Meeting

**Visual communication of synchronous firefly swarms in natural and virtual realities** August 2021  
*O. Martin, R. Sarfati, J. Hayes, O. Peleg*  
ESI Systems Neuroscience Conference

## AWARDS

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**Outstanding Teaching Assistant** May 2022  
University of Colorado Boulder

**Best DataBlitz Presentation** August 2021  
ESI Systems Neuroscience Conference

**Computer Science Department Professional Development Award** May 2021  
University of Colorado Boulder

## OUTREACH

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<b>Computer Science Graduate Student Association Graduate Committee Liaison</b> University of Colorado Boulder	August 2021 -
<b>Outside Science, Inside Parks</b> Colorado State University	April 2022
<b>Congaree National Park Firefly Research</b> National Park Service	June 2021

## PROJECTS

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<b>High-throughput ecological monitoring of firefly populations</b> <i>O. Martin, M. Iuzzolino, DMT Nguyen, R. Sarfati, C. Nguyen, O. Peleg</i>	Ongoing
<b>Cascade dynamics of synchronized firefly flashes</b> <i>O. Martin, T. Yen, J. Hayes, M. Dresser, R. Sarfati, D.B. Larremore, O. Peleg</i>	Ongoing

## INDUSTRY EXPERIENCE

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<b>Research Assistant</b> University of Colorado Boulder	February 2020 - August 2020
<b>Software Engineer in Test</b> NetApp Solidfire	December 2018 - May 2020
<b>Software Quality Engineer</b> Hitachi Vantara	August 2017 - October 2018