

Jack Kenney

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Researcher and Developer
Machine Learning

Titles and Distinctions

- **Machine Learning Consultant**, Lam Research Corporation (since 2018).
- **Neural Network Researcher**, Biologically Inspired Neural and Dynamical Systems Laboratory, College of Information and Computer Science, University of Massachusetts at Amherst (since 2017).
- **Mobile Application Developer**, UMass Disability Services, Amherst, MA (since 2017).
- **Software Development Intern**, Optum, Inc., Boston, MA, (2017).
- **Software Development Intern**, iMedia Solutions, LLC., Dartmouth, MA (2014-2015).

Academic Studies and Diplomas

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| 2015–2019 | B.Sc. in computer science , <i>with Honors</i> , GPA 3.91/4.00, Commonwealth Honors College, College of Information and Computer Sciences, University of Massachusetts at Amherst. |
| 2011–2015 | High school , <i>4th in class with Distinction</i> , GPA 3.99/4.33, Dartmouth High School |

Research Areas

- Neural network optimization algorithms
 - Non-convex loss functions
 - Epi-genetic evolutionary optimization
- Process results prediction from time-series data
 - Domain knowledge-based summarization techniques: functional fits, statistical analysis
 - Data expansion techniques: distribution calculation and sampling, noise introduction
- Recurrent neural network architectures
 - Reservoir computers and echo state networks