

Kyle Luther

Department of Physics
Princeton University, Princeton, NJ, 08540

✉ kluther@princeton.edu
🏠 kyleluther.github.io
🎓 Google Scholar

EDUCATION

Princeton University

PhD student in Physics

Advisor: H. Sebastian Seung

2016 - present

UC Berkeley

BA in Physics

2014 - 2016

PUBLICATIONS

Preprints

1. **3D reconstruction of cell nuclei in a full Drosophila brain**

bioRxiv, 2021

S Mu, S Yu, ... , **K Luther**, ... , *et al.*

Journal & Conference Publications

1. **Learning and segmenting dense voxel embeddings for 3D neuron reconstruction**

IEEE Transactions on Medical Imaging, 2021

K Lee, R Lu, **K Luther**, HS Seung

2. **Reexamining the principle of mean-variance preservation for neural network initialization**

Physical Review Research, 2020

K Luther, HS Seung

3. **Unsupervised learning by a softened correlation game: duality and convergence**

53rd Asilomar Conference on Signals, Systems, and Computers, 2019

K Luther, R Yang, HS Seung

4. **Learning metric graphs for neuron segmentation in electron microscopy images**

16th IEEE ISBI Conference, 2019

K Luther, HS Seung

5. **The discovery of a gravitationally lensed supernova Ia at redshift 2.22**

The Astrophysical Journal, 2018

D Rubin, B Hayden, ... , **K Luther**, ... , *et al.*

6. **Characterizing transiting exoplanet atmospheres with JWST**

The Astrophysical Journal, 2016

TP Green, MR Line, C Montero, JJ Fortney, J Lustig-Yaeger, **K Luther**

TEACHING

1. **Neural Networks: Theory and Applications (COS 485)**

Assistant in Instruction, Spring 2018

2. **Neural Networks: Theory and Applications (COS 485)**

Assistant in Instruction, Spring 2019