

# MAXWELL POLLACK

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BS Physics, 2015  
The College of NJ  
MS Astronomy, 2017  
UWisconsin-Madison

code, art, and music at  
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- JOBS**
- Research Intern, Numenta. Dec 2018–Apr 2019  
Supervised by Subutai Ahmad. neuroscience, machine learning
  - Graduate Research Assistant, The University of Wisconsin–Madison. Jun 2015–Aug 2017  
Advised by Bob Mathieu. observational + computational study of binary stars
  - Undergraduate Research Assistant, The College of New Jersey, Sep 2013–Dec 2014  
Advised by Paul Wiita. computational fluid dynamics, galactic jets
- PAPERS**
- Geller, Pollack, Mathieu, Latham 2019. "WIYN Open Cluster Study: The Hard Binary Population of M67". In prep.
  - Sandquist, Mathieu, Quinn, Pollack, ... 2018. "A Curiously Young Star in an Eclipsing Binary in an Old Open Cluster". The Astronomical Journal, 155, 152S
  - Pollack, Pauls, Wiita 2016. "Variability in Active Galactic Nuclei from Propagating Relativistic Turbulent Jets". The Astrophysical Journal, 820, 12P
- MEETINGS**
- Binary Stars in Cambridge 2016. Poster presentation on "Modeling Blue Straggler Formation Through Case C Mass Transfer with MESA". Pollack, Leiner, Mathieu 2016.
  - American Physical Society, Division of Fluid Dynamics 2014. Poster presentation on "Flux Variability from Turbulence and Bulk Velocity Variations in Relativistic Hydrodynamic Jets". Pollack, Pauls, Wiita 2014.
  - MESA Summer School 2015, University of California – Santa Barbara.  
10-day workshop using the stellar evolution code MESA.
- TEACHING**
- Astronomy Lecturer, Rose Memorial Library, Stony Point, NY. Aug 21, 2017.  
30-min public talk for the 2017 Solar Eclipse.
  - Public Observing, Washburn Observatory, Madison, WI. Jun 2015–Jun 2017, quarterly.  
science education, telescope operation.
  - Student, "Teaching in Science and Engineering, The College Classroom", Spring 2017  
1 semester for-credit course on STEM pedagogy in higher-Ed.
  - Graduate Teaching Assistant, The University of Wisconsin–Madison. Fall 2016  
6 recitation sections of Astronomy 103 "The Evolving Universe".
  - Public Observing, TCNJ Observatory, Ewing, NJ. Fall 2013–Spring 2015, weekly.  
science education, telescope operation.
- CODE**
- Pollack 2019. "Localization with simple recurrent networks in PyTorch"  
available at [github.com/maxwellpollack/localization\\_rnn](https://github.com/maxwellpollack/localization_rnn)