MEGAN M. KIMINKI

(formerly MEGAN M. BAGLEY)

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Education

University of Arizona, Tucson, AZ
Ph.D. Candidate in Astronomy — expected graduation: May 2017
Advisor: Dr. Nathan Smith

University of Arizona, Tucson, AZ
M.S. in Astronomy — 2012
Advisor: Dr. Jinyoung Serena Kim

University of Wyoming, Laramie, WY
B.S. in Astronomy & Astrophysics and Biology; minor in Mathematics — 2010
summa cum laude

Research Experience

University of Arizona, *Graduate Research Assistant* — 2012–present
Supervisor: Dr. Nathan Smith

- Studying the effect of massive star feedback on surrounding star formation via analysis of the kinematics of young stars formed in feedback-dominated environments.
- Showed that the luminous blue variable star Eta Carinae erupted in the Middle Ages based on the proper motions of its outer ejecta.
- PI on Magellan I (IMACS) and II (M2FS) spectroscopic observations.
- Co-I on HST Cycle 21/22 program.

University of Arizona, *Graduate Research Assistant* — 2010–2012
Supervisor: Dr. J. Serena Kim

- Characterized the high-mass stellar population of the W3 star-forming region.
- Developed sky subtraction pipeline for fiber spectroscopy in a spatially-variable background.
- PI on MMT (Hectospec) follow-up observations of newly-discovered massive binary stars.

SETI Institute, *Research Experience for Undergraduates* — 2009
Supervisor: Dr. Jean Chiar

- Examined the effect of interstellar density on the infrared silicate absorption feature.

University of Hawai'i, *Research Experience for Undergraduates* — 2008
Supervisor: Dr. Lisa Kewley

- Characterized long-duration gamma-ray burst host galaxies using their optical spectra.

University of Wyoming, *Undergraduate Research Assistant* — 2006–2008
Supervisor: Dr. Chip Kobulnicky

- Studied the local galaxy mass-metallicity relation and tested methods of computing galaxy masses from minimal photometric data.
- Secondary observer on the Wyoming Infrared Observatory.

Refereed Publications

"The O- and B-Type Stellar Population in W3: Beyond the High-Density Layer"
Kiminki, M. M., Kim, J. S., Bagley, M. B., Sherry, W. H., & Rieke, G. H. 2015, *The Astrophysical Journal*, 813, 42

"HH 666: different kinematics from Hα and [Fe II] emission provide a missing link between jets and outflows"
Reiter, M., Smith, N., **Kiminki, M. M.**, and Bally, J. 2015, *Monthly Notices of the Royal Astronomical Society*, 450, 564

"Disentangling the outflow and protostars in HH 900 in the Carina Nebula"
Reiter, M., Smith, N, **Kiminki, M. M.**, Bally, J., & Anderson, J. 2015, *Monthly Notices of the Royal Astronomical Society*, 448, 3429

“Additional Massive Binaries in the Cygnus OB2 Association”
Kiminki, D. C., Kobulnicky, H. A., Ewing, I., **Bagley Kiminki, M. M.**, Lundquist, M., Alexander, M., Vargas-Alvarez, C., Choi, H., & Henderson, C. B. 2012, *The Astrophysical Journal*, 747, 41

“The Host Galaxies of Gamma-Ray Bursts I: Interstellar Medium Properties of Ten Nearby Long-Duration Gamma-Ray Burst Hosts”
Levesque, E. M., Berger, E., Kewley, L. J., & **Bagley, M. M.** 2010, *The Astronomical Journal*, 139, 674

Conference Posters

“Young Stellar Populations in the W3 Star-Forming Region”
Bagley, M., Jose, J., Kim, J. S., Bagley, M., Meyer, M. R., Sherry, W., Roccatagliata, V., Townsley, L., & Feigelson, E. 2011, 218th Meeting of the American Astronomical Society (Boston, MA)

“Variation of the 9.7 micron Silicate Absorption Feature with Extinction in the Dense Interstellar Medium”
Bagley, M., Chiar, J. E., Whittet, D., Waters, L., Tielens, A. G. G. M., Roman-Zuniga, C., Pendleton, Y., Min, M., Lada, C., van Breeman, J., & Tappe, A. 2010, 215th Meeting of the American Astronomical Society (Washington, DC)

“Host Galaxies of Long-Duration Gamma-Ray Bursts”
Bagley, M., Kewley, L. J., & Levesque, E. M. 2009, 213th Meeting of the American Astronomical Society (Long Beach, CA)

“Standard Luminosity-Metallicity And Mass-Metallicity Relations For Local Star-Forming Galaxies In The Optical And Infrared”
Bagley, M., May, E. M., Kobulnicky, H. A., & Dale, D. A. 2007, 211th Meeting of the American Astronomical Society (Austin, TX)

Teaching Experience

University of Arizona

Teaching Assistant for ASTR 250 Foundations of Astronomy (major class) Spring 2013 & 2014
- Hold office hours, develop weekly reading quizzes (2014), led exam reviews (2013), and teach full and partial class sessions (incorporating lecture and in-class activities).

Graduate Mentor for Kepler Undergraduate Research Project 2012–2013
- Helped organize joint graduate/undergraduate project and advised undergraduate researchers.

Teaching Assistant for ASTR 170B1 The Physical Universe (non-major class) Fall 2013
- Led and helped prepare weekly lab activities; gave one full lecture outside of lab.

Teaching Assistant for ASTR 202 Life in the Universe (non-major class) Fall 2012
- Facilitated in-class activities, graded assignments, and gave two full lectures.

University of Wyoming

Teaching Assistant (Discussion) for PHYS 1220 Engineering Physics II Fall 2008
- Prepared and led weekly problem-solving sessions.

Honors & Awards

Dept. of Astronomy Outstanding Graduate Student Teaching Award	2014
University of Arizona Graduate College Fellowship	2010
Phi Beta Kappa	2009
Barry M. Goldwater Scholar	2008
NSF-EPSCoR Undergraduate Research Fellowship	2007
National Merit Scholar	2006
International Biology Olympiad (top 25%); Canadian Biology Olympiad (1st place)	2006

Professional Service & Outreach

Graduate student peer mentor	2014–present
Member, Tucson Women in Astronomy	2010–present
Graduate representative, Graduate Admissions Committee	2014
Secretary, Steward Observatory Graduate Student Council	2012–2014
Graduate representative, Astronomy Graduate Program Vision Committee	2012–2013
Workshop volunteer, Expanding Your Horizons Conference	March 2012 & 2013
Counselor, Wyoming ExxonMobil Bernard Harris Summer Science Camp	2010
Undergraduate representative, U. Wyoming College of Arts & Sciences Teaching Committee	2009-2010
Physics & Astronomy Department representative, U. Wyoming College of Arts & Sciences Student Council	2008-2010