Earl Patrick Bellinger

bellinger@mps.mpg.de

Interests

Asteroseismology, machine learning, stellar structure & evolution

Education

Ph.D. Theoretical Astrophysics, International Max Planck Research School	(*expected 2018*)
M.Sc. Computer Science, Indiana University (GPA: 3.95/4.0)	2014
B.Sc. Computer Science, SUNY Oswego (GPA: 3.81/4.0, ranked #1 overall)	2012
B.Sc. Applied Mathematics, SUNY Oswego (*summa cum laude*)	2012

Research Experience

Doctoral Candidate, **Max Planck Institute for Solar System Research**	2015 – present
Visiting Assistant in Research, Department of Astronomy, **Yale University**	2016 – 2017
Research Assistant, School of Informatics & Computing, **Indiana University**	2013 – 2015
Guest Researcher, **NIST Information Technology Laboratory**	2013, 2014
Research Student, **National Institute of Informatics**, Tokyo, Japan	2013
SURF Fellow, **NASA Jet Propulsion Laboratory**	2012
REU Student, Institute of Physics, **Federal University of Alagoas**, Brazil	2011
REU Student, **National Laboratory of Astrophysics**, Brazil	2010

Teaching Experience

Teaching Assistant, Department of Astronomy, **Yale University**	Spring 2017
Assistant, Institut für Astrophysik, **Georg-August-Universität Göttingen**	Summer 2016
Associate Instructor, School of Informatics & Computing, **Indiana University**	Fall 2012
Seminar Leader, Honors Department, **SUNY Oswego**	Fall 2010

Honors & Awards

National Physical Science Consortium Graduate Fellowship	2012 – 2017
Oebele Van Dyk Outstanding Computer Science Senior Award	2012
SUNY Chancellor's Award	2012
SUNY Oswego Student/Faculty Collaborative Challenge Grant	2011
NSF IRES / SUNY Oswego Global Laboratory Scholarship	2010, 2011
SMART Grant	2010, 2011
SUNY Oswego Presidential Scholarship	2008 – 2012

Refereed Articles

Guggenberger, E., Hekker, S., Basu, S., Angelou, G. C., **Bellinger, E. P.** (2017). Mitigating the mass dependence in the scaling relation of red-giant stars. *Monthly Notices of the Royal Astronomical Society*, 470 (2).

Angelou, G. C., **Bellinger, E. P.**, Hekker, S., Basu, S. (2017). On the Statistical Properties of the Lower Main Sequence. *The Astrophysical Journal*, 839 (2), 116.

Bellinger, E. P., Angelou, G. C., Hekker, S., Basu, S., Ball, W., Guggenberger, E. (2016). Fundamental Parameters of Main-Sequence Stars in an Instant with Machine Learning. *The Astrophysical Journal*, 830 (1), 20.

Guggenberger, E., Hekker, S., Basu, S., **Bellinger, E. P.** (2016). Significantly improving stellar mass and radius estimates: A new reference function for the $\Delta\nu$ scaling relation. *Monthly Notices of the Royal Astronomical Society*, 461 (2).

Ji, C., Li, Y. F., **Bellinger, E. P.**, Li, S., Arnold, R. J., Radivojac, P., Tang, H. (2015). A Maximum-likelihood Approach to Absolute Protein Quantification in Mass Spectrometry. *Proceedings of the 6th ACM Conference on Bioinformatics, Computational Biology and Health Informatics*, 10, 296–305.

Glover, M., **Bellinger, E. P.**, Radivojac, P., Clemmer, D. (2015). Penultimate Proline in Neuropeptides. *Analytic Chemistry*, 87 (16), 8466-8472.

Ngeow, C. C., Kanbur, S. M., **Bellinger, E. P.**, Marconi, M., Musella, I., Cignoni, M., & Lin, Y. H. (2012). Period-luminosity relations for Cepheid variables: from mid-infrared to multi-phase. *Astrophysics and Space Science*, 341(1), 105-113.

Technical Reports

Bellinger, E. P., Conner, D., Mittman, D., Magee, K., & Heventhal, B. (2012). CASSIUS: the Cassini Uplink Scheduler. *Jet Propulsion Laboratory: National Aeronautics and Space Administration.*