Dr. Earl Patrick Bellinger, Ph.D.

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Interests

Astrophysics, artificial intelligence, asteroseismology, stellar evolution, machine learning, data science

Education

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

Research Positions

Postdoctoral Researcher, **Stellar Astrophysics Centre**, Denmark	2018 – 2021
Doctoral Candidate, **Max Planck Institute**, Germany	2015 – 2018
Visiting Assistant in Research, **Yale University**, USA	2016 – 2017
Research Assistant, **Indiana University**, USA	2013 – 2015
Guest Researcher, **NIST Information Technology Laboratory**, USA	2013, 2014
Research Student, **National Institute of Informatics**, Japan	2013
SURF Fellow, **NASA Jet Propulsion Laboratory**, USA	2012
REU Student, Institute of Physics, **Federal University of Alagoas**, Brazil	2011
REU Student, **National Laboratory of Astrophysics**, Brazil	2010

Teaching Positions

Teaching Assistant, Department of Astronomy, **Yale University**, USA	2017
Assistant, Institute for Astrophysics, **University of Göttingen**, Germany	2016
Associate Instructor, School of Informatics & Computing, **Indiana University**, USA	2012
Seminar Leader, Honors Department, **SUNY Oswego**, USA	2010

Honors & Awards

Stellar Astrophysics Centre Postdoctoral Fellowship	2018 – 2021
National Physical Science Consortium Graduate Fellowship	2012 – 2017
SUNY Oswego Presidential Scholarship	2008 – 2012
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

Publishing

16 publications (8 first author), 68 citations, h-index of 4, Erdős number of 3

Selected Scientific Articles

Bellinger, E. P., Basu, S., Hekker, S., Ball, W. (2018). Model-independent measurement of internal stellar structure in 16 Cygni A and B. *The Astrophysical Journal*, 851 (2), 80.

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.

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.*

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.

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).

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.