

GREGORY A. FEIDEN

Curriculum Vitae

Dartmouth College
Dept. of Physics & Astronomy
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RESEARCH INTERESTS:

Stellar structure and evolution of low-mass stars, magnetic fields and their role in stellar structure and evolution, eclipsing binary systems, exoplanets, globular clusters, open clusters, and the stellar IMF.

EDUCATION:

Dartmouth College — Ph.D. Candidate in Physics & Astronomy Projected June 2013
Advisor: Dr. Brian Chaboyer
Thesis: The Next Generation of Low-Mass Stellar Evolution Models

State University of New York at Oswego — B.S. in Physics, *summa cum laude* May 2008
Minor: Astronomy

TEACHING EXPERIENCE:

Dartmouth College — Teaching Assistant 2009 – Present
Courses include: Introductory Physics II: Electromagnetism & Special Relativity (P14), Introduction to Astronomy: Exploring the Universe (A2/3), Advanced Stellar Astrophysics (A74/115).

State University of New York at Oswego — College Tutor 2004 – 2007
Courses include: Calculus I & II, Introductory Physics I & II, 8th Grade Mathematics

FELLOWSHIPS & AWARDS:

- Willam H. Neukom 1964 Institute for Computational Science Graduate Fellow (2011)
 - State University of New York (SUNY) Chancellor's Award for Student Excellence (2008)
 - SUNY Oswego Presidential Scholar (2004 – 2008)
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PERSONAL ACTIVITIES:

Outside of academic life I am very active in the sport of ice hockey both as a player and as a volunteer youth hockey coach for the Upper Valley Hockey Association.

PUBLIC OUTREACH:

- Co-developer of Dartmouth's *Stellar Forensics* exhibition. Presented at:
 - USA Science and Engineering Festival Exposition (2010)
 - McAuliffe-Shepard Discovery Center Space Camps (2010 – 2011)
 - Public Lectures:
 - *The Origins of the Universe*, McAuliffe-Shepard Discovery Center, Oct. 2011
 - Public Observing at Dartmouth College
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JOURNAL ARTICLES:

3 journal articles (2 first author)

1. **Feiden, G. A.** & Chaboyer, B. (2012), "*Reevaluating the Mass-Radius Relation for Low Mass, Main Sequence Stars*", ApJ submitted
 2. **Feiden, G. A.**, Chaboyer, B., & Dotter, A. (2011), "*Accurate Low-Mass Stellar Models of KOI-126*", ApJ, 739, L25
 3. Kanbur, S., Ngeow, C., & **Feiden, G. A.** (2007), "*Period-colour and amplitude-colour relations in classical Cepheid variables – V. The Small Magellanic Cloud Cepheid models*", MNRAS, 380, 819
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CONFERENCE PRESENTATIONS:**Posters:**

1. **Feiden, G.** & Chaboyer, B. "*The Low Mass, Stellar Mass-Radius Relationship*", First Kepler Science Conference, Moffett Field, CA, 5 – 9 December 2011.
2. **Feiden, G.**, Guinan, E., Boyajian, T., Kok, Y., Baştürk, Ö., Roberson, A., & Ribas, I. "*Mining the Kepler Mission Database: Rotations, Starspots, Ages and Possible Tidal Interactions of Stars with Close-in Planets*", AAS Meeting 217, Seattle, WA, 9 – 13 January 2011.
3. Chaboyer, B., Benedict, G., McArthur, B., McWilliam, A., Nelan, E., Patterson, J., Sarajedini, A., & **Feiden, G.** "*HST/FGS Parallaxes of Metal-Poor Main Sequence Stars: An Update*", AAS Meeting 217, Seattle, WA, 9 – 13 January 2011.
4. **Feiden, G.**, Kanbur, S., & Szabo, R. "*A Theoretical Investigation into the Properties of RR Lyraes at Maximum and Minimum Light*", AAS Meeting 209, Seattle, WA, 5 – 10 January 2007.
5. Kanbur, S., Ngeow, C., & **Feiden, G.** "*A Theoretical Investigation into Period-Colour Relations for Cepheids in the Small Magellanic Cloud*", AAS Meeting 209, Seattle, WA, 5 – 10 January 2007.