



measures dealing with cognitive development and student global awareness

- Developing international connections to facilitate international faculty research collaborations involving students
- Leading SUNY Oswego efforts to organize an international conference of universities participating in the Global Laboratory scheduled to take place in Brazil in June 2012
- Developing collaborative online learning experiences/courses (COIL) with the Federal University of Paraiba in Brazil, the National Central University, Taiwan and the University of Glasgow, UK.
- Leading SUNY Oswego efforts in a SUNY wide application to NSF for the STEP Phase II program. This includes developing collaborations between Oswego STEM faculty and STEM faculty at surrounding 2 year colleges.
- SUNY Oswego Possibility Scholarship: provide leadership for this program which offers a completely debt free STEM education for students from socioeconomically disadvantaged groups. Mentor these students through their degree program and direct recruitment efforts by building partnerships with local School Districts
- SUNY Oswego Institutional Grants: leading efforts to secure funding for institutional initiatives and supervise staff in the Office of Sponsored Research and Programs
- Member of SUNY 200 - a team selected from throughout SUNY to formulate the SUNY strategic plan
- Developed a summer bridging "Math Camp" for entering freshmen to help with their transition to College and assessment of the effectiveness of this program
- Developing programs to mentor high achieving students and guide them toward attaining national scholarships
- Providing guidance to develop/foster undergraduate research at SUNY Oswego
- Led the development of the Center for Applied Statistics and Probability Research (CASPeR) at SUNY Oswego. Coordinating efforts to use SUNY Oswego's statistical expertise to aid local businesses
- A member of SUNY Oswego's team to rethink General Education for the twenty first century
- Chair of a college wide committee to investigate scientific and quantitative literacy amongst SUNY Oswego undergraduates
- Former member and now ex-officio member of the Scholarly and Creative Activity Committee
- Member of the Scholarly and Creative Activity Advisory Committee
- Ex-officio member of the SUNY Chancellor's Awards committee at SUNY Oswego
- Former member of the Science Division Committee on Faculty Promotion and Discretionary Salary Increments
- Former chair and current member of the Physics Department's Personnel Committee

### **Teaching Experience**

- General University Physics (I,II, III), Optics, Laboratory Physics, Introduction to Astronomy, SUNY Oswego
- Optics, College Physics, Intermediate Astrophysics, Cosmology and Stellar Structure, SUNY Oswego
- Modern Physics, Observational Astronomy, Solar System Astronomy, SUNY Oswego

- 1998-July 2005, Numerous lectures to undergraduates and graduates at the University of Massachusetts, USA
- 2000-2001, NASA funded Inquiry based Planetarium shows and lectures to Grade 6 school children in under performing schools in Massachusetts, USA
- 1995-1998, Honors undergraduate courses in Stellar Astrophysics, University of Glasgow, UK
- 1995-1998 Introductory Astronomy, Department of Adult Education, University of Glasgow, UK
- 1995-1998, General Relativity, Department of Adult Education, University of Glasgow, UK
- 1993-1995, Teaching Assistant, University of Nebraska, USA
- 1991-1993, Teaching Assistant, Stanford University, USA
- 1985-1988, Teaching Assistant, University College London, UK

### **Graduate Student Research Supervision**

- C. Ngeow, PhD., April 2005
- D. Iono (2002), C. Ngeow (2003), graduate research projects

### **Undergraduate Research Supervision**

- At SUNY Oswego: Ten undergraduates have published papers in leading peer reviewed journals in Astrophysics
- At SUNY Oswego: C. Brooks, N. Forrest
- At SUNY Oswego: A. Bontorno, A. Marsh, Y. Chen, B. Barrett
- At SUNY Oswego: S. Lucchini, J. Wu, A. Lanman, D. Mihalova, D. Citro, J. Russ
- At SUNY Oswego: E. Bellinger, J. Primrose, D. Quill, M. Meyers, J. Brown, A. Biesenbach
- At SUNY Oswego: J. Neeley, E. Moyer, A. James, P. Thompson, B. Gilfus, Earl Bellinger (summer 2009)
- At SUNY Oswego: F. Ripple, M. Evans, L. Ghobrial, C. Morgan, R. Dienhoffer, S. Magin, J. Halsey (2008-2009)
- At SUNY Oswego: M. Turner, I. Richter, A. Missert, T. DeHaas, R. Mann, D. Barrett (summer 2008)
- At SUNY Oswego: G. Feiden, D. Wallace, F. Ripple, T. Rooker, M. Berke, J. Mellander, D. Zhang (2007-2008)
- At SUNY Oswego: G. Feiden, D. Crain, S. Scott, R. Stevens, C. Phelps, J. Young, D. Wallace (2006-2007)
- At SUNY Oswego: W. Spratt, G. Feiden, D. Wallace, D. Crain, R. Stevens (2005-2006)
- At University of Massachusetts: I. Fernando (2005, 2004), R. Healy (2003), A. Getsinger (2002), H. Mariani (2001), C. Guertin (1999)
- At Glasgow University: J. Rae (1997), P. Phillips (1996), G. Macarthur (1995)

### **Grants & Fellowships & Refereeing activities**

- 2012-2017: National Science Foundation STEP phase II - a SUNY wide STEP replication project - in progress
- 2012-2015: USIEF Obama-Singh Grant \$250,000 - pending

- 2012-2017: National Science Foundation STEP award \$1,000,000 - pending
- Central New York International Educator of the Year Award from the International Society of Syracuse
- 2011-2016: National Science Foundation SSTEM Scholarship \$600,000
- 2011-2013: National Science Foundation International Research Experience for Undergraduates \$132,000
- 2008: SUNY Oswego Provost's Award for Scholarship and Creative Activity
- 2008-2010, National Science Foundation International Research Experience for Undergraduates \$140,000
- 2007-2009, American Astronomical Society Chretien International Research Award \$20000
- 2007-2008, American Astronomical Society Small Research Grant \$4000
- 2007-2008, ENTERGY award \$2000 (PI): "Planetarium shows for fifth graders"
- 2006-2007, ENTERGY award \$1000 (PI): "Planetarium shows for fifth graders"
- 2005-2007, NASA/HST Cycle 14 award \$160,000 (Co-I): "A re-evaluation of the Cepheid Distance Scale from a homogeneous Analysis of 22 Galaxies Observed with WFPC2 (Co-I)
- 2002-2004, NASA/HST Cycle 10 award: "The Cepheid distance to NGC 1637: A direct comparison with the EPM distance to SN 1999em", \$74,000 (Co-I)
- 2000-2003, NASA/HST Cycle 9 award: "Re-calibration of the extra-galactic distance scale using PL relations at maximum light", \$39,000 (PI)
- 2000-2003, NASA/HST Cycle 9 award: "Planetarium shows and Astronomy: guiding children to scientific curiosity", \$10,000, (PI)
- NASA LTSA/ADP Binary and Main Sequence Stars Peer Review Panel member
- NASA Astrophysics Theory review panel for Post Main Sequence Objects invitation
- Referred papers for Astrophysical Journal, Astronomy and Astrophysics, Monthly Notices of the Royal Astronomical Society
- 1996-1998, Particle Physics and Astronomy Research Council, UK allocation of funds and observing time at Mount Stromlo, Australian National University, \$2000
- 1990-1991, Royal Society European Exchange Fellowship
- 1989, Best PhD, University College London
- 1987-1988, Thomas Witherden Batt Scholarship, University College London
- 1983-1985, Stanford University, USA, research/teaching assistantship
- 1982-1983 Science and Engineering Research Council of the UK research studentship
- 1981 Second year undergraduate prize, University College London

### **Relevant Skills**

- Programming: Fortran, C, C++ Perl,
- Significant experience of Unix system administration and IT management
- Design, Construction and Maintenance of Linux clusters

### **Professional Organizations**

- American Astronomical Society Council on Undergraduate Research

### **Talks/Colloquia**

- 2000-present: American Association of Physics Teachers invited colloquium 2011, Academia Sinica, Taiwan, Graduate Institute for Astronomy, National Central University,

Taiwan.

Carnegie Observatories Washington/Caltech, Ohio State, Dartmouth: University of Massachusetts: Yale: Pontifica Universidad de Chile:

INAOE, Mexico, National Optical Astronomical Observatory, Ithaca College, San Diego State University, Federal University of Santa Catarina, Brazil

• 1998-2000: Harvard: University of Massachusetts: Budapest, Hungary • 1991-1998: UNAM, Mexico: Los Alamos, USA: Budapest, Hungary: Sydney, Australia: Liverpool, UK:

Basel, Switzerland: Glasgow, UK: Michigan State, USA: Buenos Aires, Argentina: Munich, Germany: Bologna, Italy

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2. Reyner, S. Bellinger, E., Kanbur, S. M., Parkhurst, D., Ngeow, C., "The Approximation of RR Lyrae Light and eclipsing binary light curves using cubic polynomials", 2011, submitted for the refereed proceedings of the bi-annual Stellar Pulsation Conference at the Institute of Astrophysics, Granada, Spain.
3. Kanbur, S. M., Nanthakumar, A., Ngeow, C., "A Testimator Approach to Detecting Heteroskedasticity in the Cepheid PL Relation", 2011, submitted for the refereed proceedings of the bi-annual Stellar Pulsation Conference at the Institute of Astrophysics, Granada, Spain.
4. Bellinger, E., Kanbur, S., Ngeow, C., "New Insights into the Cepheid PL Relation through the use of multiphase relations", 2011, submitted for the refereed proceedings of the bi-annual Stellar Pulsation Conference at the Institute of Astrophysics, Granada, Spain.
5. Ngeow, C., Kanbur, S. M., Bellinger, E., "IRAC Cepheid PL relations and multiphase PL/PC relations", 2011, submitted to Astrophysics and Space Science for the Special Issue on Fundamental Cosmic Distance Scale Indicators.
6. Bontorno, A., Kanbur, S., Ngeow, C., "Period-Color Relations at Maximum and Minimum Light for RR Lyraes in the Sloan Digital Sky Survey", 2011, accepted for the Proceedings of the 9th Pacific Rim Conference on Stellar Astrophysics.
7. Bellinger, E., Kanbur, S., Ngeow, C., "Multiphase Comparison of Period-Luminosity Relations for Magellanic Cloud Cepheids", 2011, accepted for the Proceedings of the 9th Pacific Rim Conference on Stellar Astrophysics.
8. Ngeow, C., Kanbur, S., Citro, D., "Period-Luminosity Relations for Small Magellanic Cloud Cepheids based on AKARI Archival Data", 2011, MNRAS accepted.
9. Ngeow, C., Marconi, M., Musella, I., Kanbur, S.M., "Theoretical Cepheid Period-Luminosity and Period-Color Relations in Spitzer IRAC bands," 2011, ApJ, accepted.
10. Ngeow, C., Citro, D., Kanbur, S. M., "Period-Luminosity Relations for Small Magellanic Cloud Cepheids Based on AKARI Archival Data", 2011, MNRAS accepted.
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