

Biographical Sketch – Casey J. Law

Professional Preparation

University of Hawai‘i, Physics, B.S. with distinction, 1998
Boston University, Astronomy, M.A., 2000
Northwestern University, Astrophysics, Ph.D., 2007
University of Amsterdam, Astrophysics, Postdoctoral Fellow, 2007 – 2009
University of California at Berkeley, Astrophysics, Radio Astronomy Lab Fellow, 2009 – 2011

Appointments

2009 – present: Radio Astronomy Lab Postdoctoral Fellow at UC Berkeley.
2006 – 2008: Postdoctoral Fellow at the University of Amsterdam.
2002 – 2006: Graduate Research Assistant at Northwestern University.
2000 – 2002: Astrophysicist at Harvard-Smithsonian Center for Astrophysics.
1998 – 2000: Presidential University Graduate Fellow at Boston University.
1997 – 1998: Hawai‘i Space Grant Fellow at Institute for Astronomy.

Publications

Related to proposed project:

- “Millisecond Imaging of Radio Transients with the Pocket Correlator” Law, C. J., Jones, G., Backer, D. C., Barott, W. C., Bower, G. C., Gutierrez-Kraybill, C., Williams, P. K. G., & Werthimer, D. 2011, ApJ, accepted (astro-ph/1106.4876)
- “Observing Pulsars and Fast Transients with LOFAR” Stappers, B. W. et al. 2011, A&A, 530, 80
- “The Allen Telescope Array Pi GHz Sky Survey II. Daily and Monthly Monitoring for Transients and Variability in the Bootes Field” Bower, G. C., Whysong, D., Blair, S., Croft, S., Keating, G., Law, C., Williams, P. K. G., & Wright, M. C. H. 2011, ApJ, 739, 76
- “The Allen Telescope Array Twenty-centimeter Survey A 700-square-degree, Multi-epoch Radio Data Set. II. Individual Epoch Transient Statistics” Croft, S., Bower, G. C., Keating, G., Law, C., Whysong, D., Williams, P. K. G., & Wright, M. 2011, ApJ, 731, 34

Other significant publications:

- “Spectropolarimetry with the Allen Telescope Array: Faraday Rotation toward Bright Polarized Radio Galaxies” Law, C. J., Gaensler, B. M., Bower, G. C., Backer, D. C., Bauermeister, A., Croft, S., Forster, R., Gutierrez-Kraybill, C., Harvey-Smith, L., Heiles, C., Hull, C., Keating, G., MacMahon, D., Whysong, D., Williams, P. K. G., & Wright, M. 2011, ApJ, 728, 57
- “A Constraint on the Organization of the Galactic Center Magnetic Field Using Rotation Measures” Law, C. J., Brentjens, M. A., & Novak, G. 2011, ApJ, 731, 36
- “A Multiwavelength View of a Mass Outflow from the Galactic Center” Law, C. J. 2010, ApJ, 708, 474
- “Green Bank Telescope Multiwavelength Survey of the Galactic Center Region” Law, C. J., Yusef-Zadeh, F., Cotton, W. D., & Maddalena, R. J. 2008, ApJS, 177, 255

Synergistic Activities

- **Prison University Project** Since 2010, I have served as a math tutor for the Prison University Project at San Quentin State Prison (<http://www.prisonuniversityproject.org>). The goal of the project is to provide incarcerated people with access to an accredited college-level degree and prepare them for life after prison.
- **Science Outreach** At the University of Hawai'i, I helped organize the Hawai'i Physics Olympics, a state-wide high school physics competition. I also created a volunteer tutoring program for introductory physics classes at the University of Hawai'i. As a graduate student, I led monthly university star parties. At Univ. of Amsterdam and UC Berkeley, I have participated in special public science outreach days and led publicity for the "Science@Cal" lecture series.
- **Authored Technical Memos** I led commissioning programs for polarimetry and transients observing at the Allen Telescope Array and the KAT-7 radio interferometers. These efforts were published as technical memos to enable new users of these observing modes (ATA memos at <http://ral.berkeley.edu/ata/memos>; KAT-7 memos at <http://kat.ac.za/pmwiki/KATCommissioning>). As an astrophysicist at the *Chandra X-ray Center*, I documented observing modes and analysis software called CIAO (<http://cxc.harvard.edu/ciao>).
- **Chair of Local Organizing Committee for "LOFAR and the Transient Radio Sky"** As a postdoc at the University of Amsterdam, I organized a meeting of about 60 people for the Transients Key Project of LOFAR, the Low Frequency Array http://www.astro.uva.nl/lofar_transients/workshop/index.html. I also served on the Science Organizing Committee for the meeting.

Collaborators & Other Affiliations

Collaborators and Co-Editors

Barott, W. C. (Embry-Riddle, Florida) Bell, M. E. (Sydney, Australia) Bower, G. C. (Berkeley, California), Brentjens, M. A. (ASTRON, Netherlands) de Bruyn, A. G. (ASTRON, Netherlands) Coenen, T. (Amsterdam, Netherlands) Crocker, R. M. (MPIfK, Germany) Croft, S. (Berkeley, California) Falcke, H. (Nijmegen, Netherlands) Fender, R. P. (Southampton, UK) Griessmeier, J. (Paris, France) Gaensler, B. M. (Sydney, Australia) Heald, G. (ASTRON, Netherlands) Hessels, J. W. T. (ASTRON, Netherlands) Hull, C. (Berkeley, California) Jones, D. I. (MPIfK, Germany) Jones, G. (Caltech, California) Karastergiou, A. (Oxford, UK) van Leeuwen, J. (ASTRON, Netherlands) Markoff, S. (Amsterdam, Netherlands) Melia, F. (Arizona) Miller-Jones, J. C. A. (ICRAR, Australia) Noordam, J. E. (ASTRON, Netherlands) Novak, G. (Northwestern, Netherlands) Ott, J. (NRAO) Reich, W. (MPIfR, Germany) Röttgering, H. (Leiden, Netherlands) Smirnov, O. (ASTRON, Netherlands) Stappers, B. W. (Manchester, UK) Swinbank, J. (Amsterdam, Netherlands) Weltevrede, P. (ASTRON, Netherlands) Werthimer, D. (Berkeley, California) Whysong, D. (Berkeley, California) Wijers, R. A. M. J. (Amsterdam, Netherlands) Williams, P. K. G. (Berkeley, California) Wise, M. W. (ASTRON, Netherlands) Wright, M. C. H. (Berkeley, California) Yatawatta, S. (ASTRON, Netherlands) Zarka, P. (Paris, France)

Advisors and Advisees

People who have served as my advisor:

Farhad Yusef-Zadeh (Northwestern), Ralph Wijers (Amsterdam), Geoff Bower (Berkeley)

People whom I have advised:

Thijs Coenen (Amsterdam), Peter Williams (Berkeley), Chat Hull (Berkeley), James McBride (Berkeley)