## **Publications and Reviewing**

## First author, refereed publications:

- Finding binaries among Kepler pulsating stars from phase modulation of their pulsations, **S. J. Murphy**, T. R. Bedding, H. Shibahashi, D. W. Kurtz and H. Kjeldsen (2014), MNRAS 441, 2515
- Frequency analysis of the high-amplitude SX Phe star KIC 11754974,
  S. J. Murphy, A. Pigulski, D.W. Kurtz, J.C. Suarez, A. Grigahcène, L.A. Balona, B. Smalley, K. Uytterhoeven,
  R. Szabo, A.O. Thygesen, V. Elkin, M. Breger, G. Handler, J. Guzik, J.M. Nemec and J. Southworth, (2013b),
  MNRAS, 432, 2884
- Super-Nyquist asteroseismology with the Kepler Space Telescope,
  S. J. Murphy, H. Shibahashi, D. W. Kurtz, (2013a), MNRAS, 430, 2986
- Kepler Fourier concepts: The performance of the Kepler data pipeline,
  S. J. Murphy (2012b), AN, 333, 1057
- Pulsational amplitude growth of KIC 3420637 (HD 178875) in the context of Am and rho Puppis stars,
  S. J. Murphy, A. Grigahcène, E. Niemczura, D. W. Kurtz, K. Uytterhoeven, (2012a), MNRAS 427, 1418
- Characteristics of Kepler short- and long-cadence data,
  S. J. Murphy (2012a), MNRAS 422, 665

## As co-author:

- Asteroseismic measurement of surface-to-core rotation in a main sequence A star, KIC11145123, D.W. Kurtz, H. Saio, M. Takata, H. Shibahashi, S.J. Murphy, T. Sekii, 2014, arXiv 1405.0155
- The Kepler characterization of the variability among A- and F-type stars. I. General overview, K. Uytterhoeven, A. Moya, A. Grigahcène, J. A. Guzik, J. Gutiérrez-Soto, B. Smalley, G. Handler, L. A. Balona, E. Niemczura, L. Fox Machado, S. Benatti, E. Chapellier, A. Tkachenko, R. Szabó, J. C. Suárez, V. Ripepi, J. Pascual, P. Mathias, S. Martín-Ruíz, H. Lehmann, J. Jackiewicz, S. Hekker, M. Gruberbauer, R. A. García, X. Dumusque, D. Díaz-Fraile, P. Bradley, V. Antoci, M. Roth, B. Leroy, S. J. Murphy, P. De Cat, J. Cuypers, H. Kjeldsen, J. Christensen-Dalsgaard, M. Breger, A. Pigulski, L. L. Kiss, M. Still, S. E. Thompson, and J. Van Cleve, 2011, A&A, 534, 125
- Unusual high-frequency oscillations in the Kepler delta Scuti star KIC 4840675,
  L. A. Balona, M. Breger, G. Catanzaro, M. S. Cunha, G. Handler, Z. Kołaczkowski, D. W. Kurtz, S. J. Murphy, E. Niemczura, M. Paparo, B. Smalley, R. Szabo', K. Uytterhoeven, J. L. Christiansen, K. Uddin and M. C. Stumpe, 2012, MNRAS, 424, 1187

**Reviewing:** External examiner for one thesis. Reviewer for MNRAS, ApJ, PASA, IBVS, and Geoplanet: Earth & Planetary Sciences. Former organiser of UCLan's stellar astrophysics meetings (journal club).

## **Conferences and presentations**

- Contributed talk at CoRoT-3/KASC-7, Toulouse, France: "Finding Binaries Among Pulsating Stars", July 2014.
- "Visiting Astronomer" outreach talks (total 4x 1 hr) at Bourne Grammar School, Lincs, UK, July 2014.
- Seminar at UCLan, Preston, UK: "Finding Binaries Among Pulsating Stars", June 2014.
- Attended Aarhus Spectroscopy Workshop, Aarhus, Denmark, May 2014. All travel, accommodation and subsistence externally funded (cf. seminar, below).
- Seminar at Aarhus University, Denmark: "Finding Binaries Among Pulsating Stars", May 2014.
- SkyMapper Workshop, Australia National University, Canberra, Australia, April 2014.
- Invited Seminar at Australia National University, Canberra, Australia: "Beyond Transits (the cool stuff you can do with Kepler data)", March 2014.
- Sydney Institute for Astronomy seminar, "The Intriguing A stars", October 2013.
- **Invited review** at the KASC 6 conference, Sydney "Main sequence A-F pulsators", June 2013. Externally (RAS) funded to sum of £1250.
- Public talk at the Society for Popular Astronomy 60<sup>th</sup> Anniversary Meeting "Planets and Pulsations", May 2013.
- Invited Seminar at (1) University of Birmingham, UK; (2) University of Wroclaw, Poland; (3) Polish Academy of Sciences, Poland. "Investigating the Intriguing A-type stars", Feb/Apr/Apr 2013.
- Invited Seminar at University of Porto, Portugal. "Pulsating A-type stars seen with Kepler", November 2012. Part of an externally funded, 3-month research visit.

- 10th NEON Observing School, Asiago, Italy. Group oral presentation on symbiotic stars, Sept 2012.
- UCLan graduate research conference 2012, Preston, UK. Contributed talk in "experienced presenter" category: "Highlights of research with the Kepler space telescope" (runner up prize), July 2012.
- KASC 5, Balaton, Hungary. Contributed talk "KIC 3429637 and the problem of pulsating Am stars", June 2012.
- The Modern Era of Helio- and Asteroseismology, Obergurgl, Austria. Contributed talk "Kepler Fourier Concepts" (extended) + conference proceedings (see Publications), May 2012.
- National Astronomy Meeting, Manchester, UK. Poster "Are the constant stars in the delta Scuti instability strip chemically peculiar?" (An update), March 2012.
- Exoplanets and their host stars, Oxford, UK. Contributed talk: "Kepler Fourier concepts"; solo oral presentation of group work: "Stellar population synthesis", March 2012.
- First Kepler Science Conference, NASA Ames, California, USA. Poster "Are the constant stars in the delta Scuti instability strip chemically peculiar?", Dec 2011.
- KASC 4, Boulder, Colorado, USA. Contributed talk "A highly non-linear delta Scuti star", July 2011.
- UCLan graduate research conference 2011, Preston, UK. Poster + 5-min oral contribution "A highly non-linear delta Scuti star" (first place prize), May 2011
- IAC winter school in asteroseismology, Tenerife, Spain, Nov 2010.