# Curriculum Vitae

# AYŞE SHARLAND, née ALTINTAŞ

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## EDUCATION

- **Ph.D.** University of Warwick, Mathematics, Coventry, UK, June 2011.
  Thesis Title: *Multiple Point Spaces and Finite Determinacy of Map-germs*
  Supervisor: Prof. David Mond
- **MSc.** Yıldız Technical University, Mathematics, Turkey, July 2004.
  Thesis Title: *Geometry of Toric Varieties*
  Supervisor: Assoc. Prof. Dr. Meral Tosun
- **BSc.** Yıldız Technical University, Mathematics, (honours student), July 2002.

## RESEARCH INTERESTS

- *Singularity Theory*: finite determinacy of holomorphic map-germs, geometry and topology of the images; normal surface singularities; free divisors; toric varieties; computational aspects.

## TEACHING

- **University of Rhode Island.** MTH 103 Applied Precalculus, MTH 131 Applied Calculus I, MTH 141 Calculus I, MTH 142 Calculus II, MTH 243 Multivariable Calculus, MTH 244 Differential Equations, MTH 307 Introduction to Math Rigor, MTH 592 Special Problems, MTH 515 Algebra I, MTH 691 Special Topics I, MTH 692 Special Topics II, MTH 699 Doctoral Dissertation.
- **Stony Brook University**. Lecturer: Applied Algebra and Calculus. Teaching Assistant: Mathematical Thinking.
- **Yıldız Technical University**. Teaching assistant: Algebraic Geometry, Calculus, Differential Equations, Foundations, Rings and Modules, Topology, Fuzzy Logic.
- **University of Warwick**. Teaching Assistant: Computational Algebraic Geometry and Algebraic Topology. Supervisor (involved tutoring and grading): Analysis, Vector Analysis and Algebra.
- **Galatasaray University, İstanbul, Turkey**. Supervision of undergraduate projects: Tuğba Alaşan, *Resolution of plane curve singularities*, May 2013. Ceren Tozlu, *Free divisors*, May 2012.
- **Institute of Theoretical and Applied Physics, Marmaris, Turkey.** Mathematics education with games and origami for children aged from 8-12. Science Festival, July 3-8 and July 10-15, 2012.

## PUBLICATIONS

- Nakamoto, K., Sharland, A. and Tosun, M., *Triple root systems, rational quivers and examples of linear free divisors*. International J. of Mathematics, vol. 29 (3) (2018).
- Sharland, A., *Examples of finitely determined map-germs of corank 3 supporting Mond's $\mu \geq \tau$-type conjecture*. to appear in Experimental Mathematics. published online on 30 November 2017. preprint: arXiv.org:1702.05227.
- Altıntaş Sharland, A., Çevik, G. and Tosun, M., *Nonisolated forms of rational triple point singularities of surfaces and their resolutions*. Rocky Mountain Journal of Mathematics, vol. 46 (2) (2016), 357–388.
- Altıntaş Sharland, A., *Examples of finitely determined map-germs of corank 2 from n-space to (n+1)-space*. International J. of Mathematics, vol. 25 (5), 2014.
- Altıntaş, A. and Mond, D., *Free resolutions for multiple point spaces*. Geometriae Dedicata, vol. 162 (1) (2013), 177–190.
- Altıntaş, A. and Sarıoğlu C. C., *Problem Session*. Arrangements, Local Systems and Singularities, Progress in Mathematics, vol. 283, Birkhauser Verlag Basel/Switzerland, 2008, 283–319.

## GRANTS

- **PD Fund for completing ATL High Impact Teaching Seminars**. University of Rhode Island. January 2021.
- **Stipend for completing Online Pedagogy Course**. University of Rhode Island. May 2020.
- **Vice Chancellor's scholarship for Ph.D degree**. University of Warwick, one of five awarded department wide. June 2007 - June 2010.
- **Research/MSc. grant**. TUBITAK, The Scientific and Technological Research Council of Turkey. September 2004 - May 2007.

## TALKS and INVITED TALKS (2010 - present)

- *Normal surface singularities: An introduction*, April 2, 2014. Stony Brook University, New York, US.
- *Examples of finitely determined map-germs*,
  - April 12, 2013. Stony Brook University, New York, US.
  - April 20, 2011. Boğaziçi University, Turkey.
- *Free resolutions for multiple point spaces*, May 11, 2012. Yeditepe University, Turkey.
- *Equations defining rational singularities*, April 12, 2012. Middle East Technical University, Northern Cyprus.
- *A short exact sequence for multiple point spaces*, 11th International Workshop on Real and Complex Singularities, July 26-30, 2010. ICMC-USP, Sao Carlos, Sao Paulo, Brazil.

## OTHER ACTIVITIES

- **Organisation of conferences/courses**.
  - (Co-organiser with M. Tosun and C. Saçlıoğlu) *Short courses on Functoriality and Reciprocity* by R. Langlands, İ. İkeda, A. Altuğ and C. Saçlıoğlu, March 30 - April 27, 2011. Galatasaray University.
  - (Local organiser) *CIMPA Summer School: Arrangements, Local Systems and Singularities*, June 11-22, 2007. Galatasaray University.

## PARTICIPATION in WORKSHOP and CONFERENCES (2010 - present)

- *ATL - High Impact Teaching Seminars*, September 15 - November 3, 2020. University of Rhode Island, Rhode Island, US.
- *Online Pedagogy Competency Course - Brightspace*, April 6 - 26, 2020. University of Rhode Island, Rhode Island, US.
- *Basic Brightspace Training - Spring 2020*, March 25, 2020. University of Rhode Island, Rhode Island, US.
- *Strategies and Tools for Teaching at URI*, August 28, 2019. University of Rhode Island, Rhode Island, US.
- *AGNES*, April 25-27, 2014. Stony Brook University, New York, US.
- *24th National Mathematics Symposium*, September 7-10, 2011. Uludağ University, Turkey.
- *Free divisors*, May 31-June 4, 2011, University of Warwick, UK.
- *11th International Workshop on Real and Complex Singularities*, July 26-30, 2010. ICMC-USP, Sao Carlos, Sao Paulo, Brazil.