

Keyvan Yaghmayi

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Education

- 2017 **Ph.D.** in Mathematics, University of Utah
Thesis: On the Topology of Berkovich Spaces
Advisor: Tommaso de Fernex
- 2011 **M.Sc.** in Mathematics, Sharif University of Technology
Thesis: Tropical Algebraic Geometry
Advisor: Arash Rastegar
- 2008 **B.Sc.** in Mathematics, Sharif University of Technology

Research Interests

Algebraic Geometry, Berkovich Spaces, Tropical Mathematics, Digital Image Processing.

Publications and Preprints

- [1] Keyvan Yaghmayi. *Geometry over the Tropical Dual Numbers*, 2016, submitted to manuscripta mathematica, preprint: <https://arxiv.org/abs/1611.05508>.
- [2] Tommaso de Fernex, Lorenzo Fantini, Keyvan Yaghmayi. *On the Topology of Berkovich Spaces*, 2017, under preparation.

Presentations

- 1. *Invariant Theory of Finite Groups*, Student Algebraic Geometry Seminar, University of Utah, November 2015.
- 2. *Cubical Hyperresolutions*, Student Seminar on Hodge Theory, Mentored by Professor Y.P. Lee, Fall 2015.
- 3. *Mixed Hodge Structure on Smooth Complex Varieties*, Student Seminar on Hodge Theory, Mentored by Professor Y.P. Lee, Spring 2015.
- 4. *Introduction to Berkovich Spaces*, Utah Tropical Geometry Conference, University of Utah, May 2014.
- 5. *Some Basic Facts About Berkovich Spaces*, Student Tropical Algebraic Geometry Seminar, Yale University, May 2014.
- 6. *An Introduction to Tropical Mathematics*, Graduate Colloquium, University of Utah, October 2012.

Awards and Fellowships

Fall 2016	Supported by Professor de Fernex' FRG Grant.
Spring 2015	Supported by Professor Schwede's FRG Grant.
Spring 2014	Supported by Professor de Fernex' FRG Grant.
2011-2017	Teaching Fellowship, University of Utah.
2008-2010	Graduate Student Tuition Fellowship, Sharif University of Technology.

Research Workshops and Seminars

1. *Western Algebraic Geometry Symposium*, Colorado State University, October 2016.
2. *Summer Graduate School: Chip Firing and Tropical Curves*, MSRI, July-August 2016.
3. *Higher Dimensional Algebraic Geometry Summer School*, University of Utah, July 2016.
4. *Student Tropical Algebraic Geometry Seminar 3*, Yale University, June 2016.
5. *AMS Spring Western Sectional Meeting*, University of Utah, April 2016.
6. *Unramified Cohomology, Derived Categories, and Rationality*, University of Utah, February 2016.
7. *Western Algebraic Geometry Symposium*, University of Washington, October 2015.
8. *AMS Summer Institute in Algebraic Geometry*, University of Utah, July 2015.
9. *Graduate Student Bootcamp for AMS Summer Institute in Algebraic Geometry*, University of Utah, July 2015.
10. *Non-Archimedean Geometry and its Applications*, University of Michigan, June 2015.
11. *Student Tropical Algebraic Geometry Seminar 2*, Brown University, April 2015.
12. *Foliations with Effective Anti-canonical Bundle*, University of Utah, December 2014.
13. *Student Tropical Algebraic Geometry Seminar*, Yale University, May 2014.
14. *Western Algebraic Geometry Symposium*, University of Colorado at Boulder, April 2014.
15. *Mini-Workshop on Cremona Groups*, University of Utah, November 2013.
16. *Western Algebraic Geometry Symposium*, UC San Diego, November 2013.
17. *Thematic Program on Motivic Invariants and Singularities*, University of Notre Dame, May-June 2013.
18. *The Commutative Algebra of Singularities in Birational Geometry: Multiplier Ideals, Jets, Valuations, and Positive Characteristic Methods*, MSRI, May 2013.
19. *Western Algebraic Geometry Symposium*, University of Utah, October 2012.

Teaching Experience

1. Differential Equations and Linear Algebra (Math 2250), University of Utah, Summer 2017.
2. Calculus III (Math 2210), University of Utah, Spring 2017.
3. Calculus II (Math 1220), University of Utah, Summer 2016.
4. TA for Calculus II (Math 1220), University of Utah, Spring 2016.
5. Calculus I (Math 1210), University of Utah, Fall 2015.
6. Trigonometry (Math 1060), University of Utah, Summer 2015.

7. Calculus I (Math 1210), University of Utah, Fall 2014.
8. Trigonometry (Math 1060), University of Utah, Fall 2013.
9. College Algebra (Math 1090), University of Utah, Spring 2013.
10. Quantitative Analysis (Math 1100), University of Utah, Fall 2012.
11. TA for Mathematics for Engineering (PDEs and Complex Analysis), Sharif University of Technology, Fall 2008 - Spring 2011 (Seven Semesters).
12. TA for Ordinary Differential Equations, Sharif University of Technology, Fall 2008.

Teaching Workshops and Seminars

1. *Gender and Sexuality Workshop*, University of Utah, November-December 2016.
2. *Graduate Student Teaching Seminar*, Organized by Kelly MacArthur and Maggie Cummings, University of Utah, Fall 2016.
3. *Maximizing the Effectiveness of Student Course Feedback Workshop*, University of Utah, November 2013.
4. *Annual Teaching Symposium*, University of Utah, August 2013.
5. *Veterans in the Classroom*, University of Utah, April 2013.
6. *Responding to L2 Writing*, University of Utah, February 2013.
7. *International Teaching Assistant Seminar*, Organized by Diane Cotsonas, University of Utah, Fall 2012.
8. *Annual Teaching Symposium*, University of Utah, August 2012.
9. *New TA Teaching Workshop*, Department of Mathematics, University of Utah, August 2012.

Reviewer Service: Zentralblatt Math (zbMATH), reviewer since 2016

Professional Affiliations: American Mathematics Society

Computer Skills: Matlab, Maple, Mathematica, Java, \LaTeX , MS Excel

References

Research Area:

1. Professor *Tommaso de Fernex*. Email: defernex@math.utah.edu. Phone: 801-581-7121.
2. Professor *Aaron Bertram*. Email: bertram@math.utah.edu. Phone: 801-581-6964.
3. Professor *Yuan-Pin Lee*. Email: yplee@math.utah.edu. Phone: 801-581-5275.

Teaching Area:

4. Professor *Kelly MacArthur*. Email: macarthur@math.utah.edu. Phone: 501-581-6567.
5. Professor *Nathan Smale*. Email: smale@math.utah.edu. Phone: 801-581-6567.