

Emine YILDIRIM

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EDUCATION

PhD. in Mathematics,
Université du Québec à Montréal, Canada. August 2015–May 2018
University of New Brunswick, Canada. January 2014–August 2015
Advisor : Hugh Thomas

MSc. in Mathematics, February 2010–June 2011
Abant Izzet Baysal University, Turkey.
Advisor : Tahire Ozen Ozturk
Master Thesis : Studies on Some Complexes

BSc. in Mathematics, September 2006–January 2010
Abant Izzet Baysal University, Turkey.
Graduation Thesis I : Weierstrass Approximation Theorem
Graduation Thesis II : Finite State Machines

WORK EXPERIENCE

Teaching Asistant January 2014–August 2015
University of New Brunswick, Canada.

Lecturer August 2012–December 2013
Istanbul Arel University, Turkey.

PAPERS

E. Yildirim, *Coxeter transformation on cominuscul posets*. Accepted to Algebra and Representation Theory.

T. Brüstle, G. Douville, K. Mousavand, H. Thomas, and E. Yildirim, *On the combinatorics of gentle algebras*. arXiv:1707.07665.

T. Ozen and E. Yildirim, *\mathcal{X} -Injective and \mathcal{X} -Projective Complexes*. Bull. Iranian Math. Soc. Vol. 42 (2016), No. 5, pp. 1221-1235.

PRESENTATIONS

- *Monomial ideals of path algebras*, research seminar, UNB Math Department, March 2014.
- *Two dimensional Yetter-Drinfeld modules over $U_q(sl_2)$ are trivial*, Hopf Algebras in (Co)Action workshop, UNB, June 2014.
- *Cluster Algebras*, graduate seminar, UNB Math Department, April 2015.
- *Coxeter transformation of the poset of order ideals in a grid*, International Conference on Representations of Algebras, Syracuse, August 2016.
- *On the combinatorics of gentle algebras*, XXVIIIth Meeting on Representation Theory of Algebras, Sherbrooke, Quebec, September 2016.

- *Periodic behavior of Auslander-Reiten translation*, The Mathematical Congress of the Americas (MCA), Montreal, Quebec, July 2017.
- *Auslander-Reiten translation on cominusculose posets*, Advances in Representation Theory of Algebras VI: Geometry and Homology (ARTA), Luminy, September 2017.
- *Coxeter transformation on cominusculose posets*, Combinatoric seminar, University of Minnesota Math Department, Minneapolis, September 2017.
- *Coxeter transformation on cominusculose posets*, Cluster algebras seminar, University of Connecticut Math Department, Connecticut, October 2017.
- *Cluster Monomials in Web Basis*, Cluster algebras seminar, University of Connecticut Math Department, Connecticut, November 2017.
- *Cluster Monomials in Web Basis*, Algebra seminar, University of Sherbrooke, Math Department, Quebec, November 2017.
- *The Coxeter transformation on grid posets*, Department seminar, Istanbul Technical University, Math Department, Istanbul, December 2017.
- *The Coxeter transformation on cominusculose posets*, Department seminar, Mimar Sinan University, Math Department, Istanbul, December 2017.
- *The Coxeter transformation on cominusculose posets*, Séminaire de combinatoire, Université du Québec à Montréal, LaCIM, February 2018.
- *The periodicity of the Coxeter transformation*, The XXI^e Colloque panquébécois des étudiants de l'Institut des Sciences mathématiques (ISM), Université de Sherbrooke, May 2018.
- *Associahedra via quiver representations*, Canadian Mathematical Society Summer Meeting, Fredericton, New Brunswick, June 2018.

CONFERENCES ATTENDED

- Fall Eastern Sectional Meeting Dalhousie University, Halifax, October 2014.
- Maurice Auslander Distinguished Lectures and International Conference, Woods Hole, Massachusetts, April 2015.
- The XXVIIth Meeting on Representation Theory of Algebras, Sherbrooke, Quebec, September 2015.
- Canadian Mathematical Society Winter Meeting, Montreal, Quebec, December 2015.
- Maurice Auslander Distinguished Lectures and International Conference, Woods Hole, Massachusetts, April 2016.
- The XIX^e Colloque panquébécois des étudiants de l'ISM, UQAM, May 2016.
- International Conference on Representations of Algebras, Syracuse, New York, August 2016.
- The XXVIIIth Meeting on Representation Theory of Algebras, Sherbrooke, Quebec, September 2016.
- Combinatorial Algebra meets Algebraic Combinatorics, Fourteenth Annual Meeting, Montreal, January 2017.
- Maurice Auslander Distinguished Lectures and International Conference, Woods Hole, Massachusetts, April 2017.
- The Mathematical Congress of the Americas (MCA), Montreal, Quebec, July 2017.

- Advances in Representation Theory of Algebras VI: Geometry and Homology (ARTA), CIRM, Luminy, France, 2017.
- The XXIXth Meeting on Representation Theory of Algebras, Sherbrooke, Quebec, September 2017.
- Combinatorial Algebra meets Algebraic Combinatorics, Fifteenth Annual Meeting, Hamilton, January 2018.
- Cluster Algebras: Twenty Years On, CIRM, Luminy, France, 2018.
- The XIX^e Colloque panquébécois des étudiants de l'ISM, Université de Sherbrooke, May 2018.
- Canadian Mathematical Society Summer Meeting, Fredericton, New Brunswick, June 2018.

WORKSHOPS ATTENDED

- Path Algebras and Homology, Bahcesehir University, Turkey, January 2013.
- Noncommutative Geometry and Quantum Groups, Bahcesehir University, Turkey, September 2014.
- Hopf Algebras in (Co)Action, UNB, Canada, June 2014.
- Cluster algebras, Poisson Structure, Networks and Integrable Systems, CRM, Montreal, July 2015.
- Positive Grassmannians, CRM, Montreal, July 2015.
- Workshop on Representations of Algebras, Syracuse, New York, August 10–13, 2016.
- Sage Days 86, UQAM, Montreal, April 2017.
- School and Workshop : Algebraic and Geometric Combinatorics of Reflection Groups, UQAM and UdeM, Montreal, June 2017.
- Connections for Women: Group Representation Theory and Applications, Mathematical Sciences Research Institute, Berkeley, February 2018.
- Introductory Workshop: Group Representation Theory and Applications, Mathematical Sciences Research Institute, Berkeley, February 2018.

AWARDS

- Undergraduate Scholarship from Prime Ministerial Office in Turkey. 2006-2010.
- Graduate Scholarship from Prime Ministerial Office in Turkey. 2010-2011.
- International Differential Scholarship at UNB. 2014.
- President's Doctoral Tuition Award at UNB. 2014.
- Tuition Exemption Scholarships at UQAM. 2015, 2016, 2017, 2018.
- ISM Graduate Scholarships at UQAM. 2016, 2017, 2018.
- ISM Scholarships for Outstanding PhD Candidates. 2018.

**TEACHING
EXPERIENCE**

University of New Brunswick, Fredericton, Canada: From January 2014 to August 2015, I worked as a teaching assistant for introductory calculus classes. I was responsible for preparing exercises and grading. I conducted problem solving sessions two hours every week. In addition, I worked as a tutor at the Math Help Center helping students in their homeworks.

Arel University, Istanbul, Turkey: From 2012 to 2014, I was a full time lecturer. I taught introductory calculus classes in English to first and second year engineering students. I was responsible from preparing and giving lectures, assigning and grading homeworks, preparing and grading exams.

SKILLS

Languages: Turkish (native), English (fluent), French (intermediate).

Software: MATLAB, L^AT_EX, GAP, PYTHON, JAVA, SINGULAR, MATHEMATICA, SAGE.

Art: Painting, Photography.