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**Personal** Born in Wroclaw, Poland, on July 14, 1976.  
Canadian citizen.

**Education**

- **University of California at Berkeley** - Ph.D, May 2002, advised by Edward Frenkel.  
Thesis: *Algebraic curves, twisted vertex operators and Prym varieties.*
- **University of Toronto, Canada**, B.Sc. (Hons.), 1994-1997.  
Mathematics and Computer Science.

**Publications**

- *Heisenberg orbifolds and Prym varieties*, in preparation.
- *Lattice orbifolds and Prym theta functions*, in preparation.
- *Orbifold conformal blocks, chiral correlators, and KZ equations*, in preparation.
- *A first glimpse at the minimal model program*, with Charles Cadman, Izzet Coskun, Kelly Jabbusch, Michael Joyce, Sandor Kovacs, Max D. Lieblich, Fumitoshi Sato, and Jing Zhang. Contemporary Math Vol 388, AMS.
- *Discrete torsion, orbifold elliptic genera, and the chiral de Rham complex*, with A. Libgober, [math.AG/0412422](https://arxiv.org/abs/math/0412422).
- *Orbifold conformal blocks and the stack of G-covers*, submitted, to appear in Journal of Geometry and Physics.
- *Chiral de Rham complex and orbifolds*, with Edward Frenkel, submitted, to appear in Journal of Algebraic Geometry .
- *Twisted vertex algebra modules on algebraic curves*, with Edward Frenkel, Adv. Math. **187** (1), 2004.
- *Wakimoto modules for twisted affine algebras*, Math. Res. Lett. **9** (4), 2002.

**Honors and Awards**

- National Science Foundation, Principal Investigator for grant DMS-0401619, 2004-2007.
- University of Pennsylvania, the Award for Good Teaching, Math 412, 2004.

- University of Pennsylvania, the Award for Good Teaching, Math 371, 2003.
- University of Pennsylvania, the Award for Good Teaching, Math 350, 2002.
- NSERC Julie Payette Research Fellowship, 2000 - 2002.
- NSERC Graduate Fellowship, 1998-2000.
- Morrey Prize (UC Berkeley), Fall 1999.

**Service**

- University of Pennsylvania: Putnam Examination Committee, 2004-2005; Preliminary Examination Committee, 2004-2005; Advisor for Mathematics Minors, 2002-2005; Graduate Admissions Committee, 2002-2004.

**Invited talks**

- Nagoya University, *Mathematical Physics Seminar*, July 2005.
- ESI Vienna, *Vertex Algebras and Related Topics*, June 2005.
- University of Connecticut, *Colloquium*, April 2005.
- Johns Hopkins, *Algebraic geometry seminar*, March 2005.
- UMass Amherst, *Colloquium*, February 2005.
- Notre Dame, *Colloquium*, January 2005.
- University of Ottawa, *Colloquium*, January 2005.
- University of Western Ontario, *Colloquium*, January 2005.
- SUNY Stony Brook, *Geometry and Physics seminar*, October 2004.
- ABC-KLM conference, Gregynog, Wales, *Geometry and Physics*, October 2004.
- University of Illinois at Urbana-Champaign, *Algebraic geometry seminar* September 2004.
- Yale University, *Colloquium*, March 2004.
- ESI, Vienna. *Tensor categories and applications* July 2004.
- AMS conference, Houston, *Algebraic geometry special session*, May 2004.
- University of Michigan, *Algebraic geometry seminar*, March 2004.
- Boston University, *Geometry seminar*, February 2004, February 2005.
- University of Massachusetts, Amherst, *Representation theory seminar*, March 2004.
- Rutgers University, *Vertex algebra seminar*, December 2003.
- Columbia University, *Algebraic geometry seminar*, October 2003.
- University of Wisconsin, Madison, *Algebraic geometry seminar*, September 2003.

- Fields institute conference, *Infinite dimensional Lie algebras*, July 2003.
- BIRS workshop, *Motivic integration, elliptic genera, and the chiral de Rham complex*, June 2003.
- UPenn, *Math/physics seminar*, May 2003.
- UPenn, *Algebra seminar*, September 2002.
- Luminy conference, *Vector bundles on algebraic curves*, July 2002.
- Berkeley, *Infinite-dimensional Lie Algebras Seminar*, April 2002.
- Berkeley, *Quiver varieties seminar*, 2001.

**Teaching**

**UPenn:**

- Graduate topics course: *Vertex algebras and algebraic curves*
- Graduate algebra
- Advanced linear algebra
- Calculus for business
- Vector calculus
- Abstract algebra II
- Number theory

**Languages**

Polish, Swedish, French, English, Russian

**References**

**Professor Edward Frenkel**

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**Professor Tony Pantev**

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**Professor Michael Thaddeus**

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**Professor Anatoly Libgober**

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