

# Sebastián Torres

Curriculum Vitae

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**CONTACT INFORMATION** 1365 Memorial Drive, Ungar 503  
Coral Gables, FL 33146, USA  
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**RESEARCH** **Research area:** Algebraic geometry.

**Preprints:**

- *Rational surfaces with a non-arithmetic automorphism group*, with Jennifer Li (2023).  
Preprint. arXiv:2310.08768.
- *The BGMN conjecture via stable pairs*, with Jenia Tevelev (2021).  
Submitted. arXiv:2108.11951.
- *Bott vanishing using GIT and quantization* (2020).  
Accepted for publication in the Michigan Mathematical Journal. arXiv:2003.10617.

**EMPLOYMENT** **International Center for Mathematical Sciences - Sofia**, 2021-2022.  
Postdoctoral researcher.

**Institute of Mathematical Sciences of the Americas - Miami**, 2022-2023.  
Postdoctoral researcher.

**EDUCATION** **University of Massachusetts, Amherst**, 2015–2021.  
PhD in Mathematics. Awarded September 2021.  
Advisor: Jenia Tevelev.

**Pontificia Universidad Católica de Chile**, 2013–2015.  
Master's degree in Mathematics.  
Advisor: Rubí Rodríguez.

**Pontificia Universidad Católica de Chile**, 2011–2012.  
Bachelor's degree in Mathematics.

**Pontificia Universidad Católica de Chile**, 2007–2012.  
Civil Engineer.

**TEACHING EXPERIENCE** **University of Miami.**  
Instructor for undergraduate math courses:

- Mth162, Calculus II

**University of Massachusetts, Amherst.**  
Instructor for undergraduate math courses:

- Math131, Calculus I
- Math132, Calculus II

**University of Massachusetts, Amherst.**

Teaching Assistant for undergraduate math courses:

- Math131, Calculus I
- Math132, Calculus II

**Pontificia Universidad Católica de Chile.**

Teaching Assistant for undergraduate math courses:

- MAT2205, Abstract algebra I
- MAT2218, Abstract algebra II
- MAT2545, Topology
- MAT2500, Ordinary differential equations
- MAT1203, Linear algebra
- MAT1306, Introduction to geometry
- MAT220E, Calculus II
- MAT1012, Algebra

**AWARDS**

**Pontificia Universidad Católica de Chile,**

Ayudante de Excelencia (Distinguished T.A.), 2014.

**TALKS AND POSTERS**

- Valley Geometry Seminar. University of Massachusetts Amherst, October 2023.
- Generalized and Symplectic Geometry. IMSA-Miami and ICMS-Sofia, Sunny Beach, Bulgaria, August 2023.
- ABGMS (Arithmetic, Birational Geometry and Moduli Spaces), Poster Session. Brown University, June 2023.
- BRAG (British Algebraic Geometry seminar), Poster Session. Imperial College, London, September 2022.
- Conference: Hodge Theory and Related Topics. IMSA, University of Miami, March 2022.
- Joint ICMS & IMSA Seminar. University of Miami, February 2022.
- Derived Seminar. Hosted virtually, October 2021.
- Joint ICMS & IMSA Seminar. Hosted virtually by ICMS-Sofia, Bulgaria, October 2021.
- Algebraic Geometry Seminar. University of Arizona (virtually), October 2021.
- Algebraic Geometry Seminar. University of California Davis (virtually), May 2021.
- AGNES (Algebraic Geometry Northeastern Series), Poster Session. Stony Brook (virtually), October 2020.
- AGSAGS (American Graduate Student Algebraic Geometry Seminar). Hosted virtually, September 2020.
- GRASS (Graduate Student Seminar). University of Massachusetts Amherst (virtually), September 2020.
- Seminar on Fano varieties. Pontificia Universidad Católica de Chile (virtually), May 2020.
- Moduli on Chestnut Hill, Short Presentations. Boston College, March 2020.
- Pick my Brain Seminar. Northeastern University, February 2020.
- IV ELGA, Talks by young researchers. Universidad de Talca, Chile, December 2019.
- Seminar on Algebraic Geometry and Derived Categories. Pontificia Universidad Católica de Chile, Fall 2019.
- GRASS (Graduate Student Seminar). University of Massachusetts Amherst, April 2019.