

CURRICULUM VITAE

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Employment

- 2024 - *Professor*, Universidad Nacional Autónoma de México, Oaxaca.
2016 - 2023 *National Researcher*, Mexican National Council of Science and Technology.
2015 - 2016 *Postdoctoral Fellow*, Max Planck Institute for Mathematics, Bonn.

Short-term positions

- 2014 - 2015 *Assistant of teaching and research* (ATER) Paris 7.
2012 *Program associate*, semester program in Cluster Algebras at MSRI.

Education

- 2011 - 2015 *Ph.D.*, Université Paris Diderot - Paris 7, Paris, France.
Thesis supervisor: Bernhard Keller.
Thesis co-supervisor: Lauren Williams (Berkeley).
2009 - 2011 *M.Sc.*, Universidad Nacional Autónoma de México, Mexico.
Best academic performance in my graduating class (10/10)
2005 - 2009 *B.Sc.*, Universidad Nacional Autónoma de México, Mexico.
Second best academic performance in my graduating class (9.87/10).

Scientific / Academic Honors

- 2023 - 2026 *Research grant CF-2023-G-106*, CONACYT.
2020 *Simons Visiting Professor*, Oberwolfach-Simons Foundation.
2012 *Financial support*, Fondation Sciences Mathématiques de Paris.
2011 *Alfonso Caso Medal*, UNAM, awarded for the best performance in M.Sc.

Publications

- (with Man-Wai Cheung and Timothy Magee), *Compactifications of cluster varieties and convexity*, **International Mathematics Research Notices**, 2022 no. 14, 1–54.
- (with L. Bossinger, F. Mohammadi), *Gröbner degenerations of Grassmannians and universal cluster algebras*, **SIGMA Symmetry, Integrability and Geometry: Methods and Applications** (2021) **17**, Paper No. 059, 46 pp.
- (with L. Bossinger, B. Frías Medina, T. Magee), *Toric degenerations of cluster varieties and cluster duality*, **Compositio Mathematica** 156 (2020), no. 10, 2149–2206.
- A. Nájera Chávez, *A 2-Calabi-Yau realization of finite-type cluster algebras with universal coefficients*, **Mathematische Zeitschrift** (2019), **291** (3-4) 1495–1523.
- A. Nájera Chávez, *Landau-Ginzburg potentials for Fano compactifications cluster varieties*, **Oberwolfach Reports**, DOI: 10.14760/OWR-2020-10, pp. 7–8.

6. A. Nájera Chávez, *On Frobenius (completed) orbit categories*. **Algebras and Representation Theory** (2017) **20**, no. 4, 1007–1027.
7. A. Nájera Chávez, *A. c -Vectors and dimension vectors for cluster-finite quivers*, **Bulletin of the London Mathematical Society** (2013) **45** (6), 1259–1266.
8. A. Nájera Chávez, *On the c -vectors of an acyclic cluster algebra*, **International Mathematics Research Notices** (2015) **6**, 1590–1600.
9. A. Nájera Chávez, *On the c -vectors and g -vectors of the Markov cluster algebra*, **Séminaire Lotharingien de Combinatoire** **69** (2013), Article B69d.

Preprints

1. (with Nathan Ilten, Hipolito Treffinger), *Deformation Theory for Finite Cluster Complexes*, arXiv:2111.02566 [math.AG].
2. (with Lara Bossinger, Man-Wai Cheung, Timothy Magee) *Newton-Okounkov bodies and minimal models for cluster varieties*, arXiv:2305.04903 [math.AG].
3. (with Carolina Melo), *The cluster complex for cluster Poisson varieties and representations of acyclic quivers*, arXiv:2310.03626 [math.RT].

Ph.D. Students supervised

- Carolina Melo López (Universidad Nacional de Colombia, Bogotá, in progress, since 2021).
- Jorge Luis Santos Silva (UNAM, in progress, since 2021).

Selected talks

- BIRS workshop: Stability Conditions and Representation Theory of Finite-Dimensional Algebras, CMO, September 2023.
- Canada-Mexico-US Conference in Representation Theory, Noncommutative Algebra, and Categorification, CRM, Université de Montréal, August 2023.
- Colloquium, UNAM, Cuernavaca, May 2023.
- Geometry, Topology, Group Actions, and Singularities in the Americas, University of Miami, October 2022, on-line..
- Algebraic Geometry and Polyhedra, ICRM, Brown University, April 2021, on-line.
- MFO Mini-Workshop: Superpotentials in Algebra and Geometry MINI-COURSE (3H) Mathematisches Forschungsinstitut Oberwolfach, February 2020.
- Quantum Toric Geometry and Chimeras, University of Miami, October 2019.
- Mirror Symmetry and Cluster Algebras, University of Cambridge, July 2019.
- Cluster Algebras 2019, RIMS, Kyoto University, June 2019.
- BIRS workshop: Stability Conditions and Representation Theory of Finite-Dimensional Algebras, CMO, November 2018.
- Third meeting of the US-Mexico Conference on Representation Theory, Categorification, and Non-commutative algebra. UNAM, November 2017.
- Bethe Forum on Mirror Symmetry, Bethe Center for Theoretical Physics, July 2016.
- XVI International Conference on Representation of Algebras (ICRA), Sanya International Mathematics Forum, August 2014.
- XV ICRA, Bielefeld University, August 2012.
- Second joint meeting of the Canadian Mathematical Society and the Sociedad Matemática Mexicana, University of British Columbia, September 2009.
- Colloquium, CINVESTAV, Mexico, May 2018.