

Aníbal Luciano Olivera Morales

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Personal Information

Born	1997 (Chile)
Nationality	Chilean
Current Residence	Chile
Address	Santiago, Metropolitan Region José Victorino Lastarria 394, 62, Santiago commune.
Mobile Phone	+56 9 85383719
Personal E-mail	anibal.olivera.m@gmail.com
Academic E-mail	an.oliveram@udd.cl

Education

- 03/2016 - 09/2019 **B.Sc. in Physics**, Faculty of Physical and Mathematical Sciences, Universidad de Concepción.
- 03/2020 - 04/2022 **M.Sc. in Physics**, Faculty of Physical and Mathematical Sciences, Universidad de Concepción.
- 03/2023 - Present **Ph.D. in Social Complexity Science**, Research Center for Social Complexity (CICS), Universidad del Desarrollo.
- 07/2024 - 03/2025 **Diploma in University Teaching**, Faculty of Education, Universidad del Desarrollo.

Honors and Awards

- 2012 - 2015 o Top Academic Achievement, Class of 2015, Colegio Santa Sabina.
- 2022 o M.Sc. Thesis Defense, awarded maximum distinction (7.0/7.0), Universidad de Concepción (UdeC).
- 2025 o Sunbelt 2025 Student Award: an annual recognition for young scholars, International Network for Social Network Analysis (INSNA).

Scholarships and Grants

- 2016 o Enrique Molina Garmendia Scholarship Recipient, Class of 2016, Universidad de Concepción (UdeC).
- 2023 - Present o Grant: Beca Doctorado Nacional, Agencia Nacional de Investigación y Desarrollo (ANID).
- 2025 - Present o Grant: Beca Complementaria, Gastos Operacionales, with a score of 5.0 out of 5.0, Agencia Nacional de Investigación y Desarrollo (ANID).

Research and Academic Activities

Conferences

- 2019, Attendee o Winter School HEP-PUC, Topics on Graviticulas, *Pontificia Universidad Católica de Chile* (PUC).
- 2019, Attendee o 2nd UdeC School on CFT and String Theory, *Universidad de Concepción* (UdeC).
- 2022, Presenter o 53rd Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics.
Online Poster: "Atom-atom van der Waals Interactions through a Lens".
American Physical Society (APS).
- 2024, Presenter o Computational Social Science 2024 Annual Conference, Santa Fe, NM, USA.
In-person Poster: "How does network structure in Agent-Based Models affect epidemiological parameters? A large simulation study".
Computational Social Science Society of the Americas (CSSSA).
- 2025, Presenter o Sunbelt 2025, Paris, France.
Oral Presentation: "Diffusion of Innovations with Individual Preferences: The Role of Social Reinforcement and Homophilic Ties".
International Network for Social Network Analysis (INSNA).
- 2025, Session Co-organizer o Sunbelt 2025, Paris, France.
Session co-organized with Thomas Valente (USC): "Contagion and Diffusion processes through Social Networks".
International Network for Social Network Analysis (INSNA).

Talks

- 2024, Speaker o '*How does network structure in ABMs affect epidemiological parameters? A large simulation study*', Epidemiological Division, Internal Medicine, University of Utah (UofU), Salt Lake City, Utah.
- 2024, Speaker o '*New capabilities of netdiffuseR package: Multidiffusion models*', Epidemiological Division, Internal Medicine, University of Utah (UofU), Salt Lake City, Utah.
- 2024, Speaker o '*How does network structure in ABMs affect epidemiological parameters? A large simulation study*', Center for Applied Network Analysis, University of Southern California (USC), Los Angeles, California.
- 2024, Speaker o '*Social Contagion in Networks: Exploring Diffusion Dynamics and Research Insights*', Research Center for Social Complexity, Universidad del Desarrollo (CICS), Santiago, Chile.
- 2025, Speaker o '*Networks Decide for Us: When Networks Shape Behavior More Than Intentions.*', Centro de Investigación en Complejidad Social, Universidad del Desarrollo (CICS), Santiago, Chile.

Workshops

2024, Instructor o *NetdiffuseR Workshop*. Center for Applied Network Analysis, University of Southern California (USC), Los Angeles, California.

2025, Instructor o *Understanding Diffusion with netdiffuseR*. Sunbelt 2025 (INSNA), Paris, France.

Publications

- 2022 o Olivera, A., Sinha, K., Solano, P., *Dipole-dipole interactions through a lens*, Phys. Rev. A 106, 013703. doi.org/10.1103/PhysRevA.106.013703.
- 2024 o Valente, T., Vega Yon, G., Olivera, A., *A NetdiffuseR Tutorial: Estimating Network Influences on Behavior within the Diffusion Paradigm*, Connections-D-25-00002-. [Under Review].
- 2024 o Vega Yon, G., Valente, T., Olivera, A., *The netdiffuseR R package: Analysis of Diffusion and Contagion Processes on Networks*, Journal of Open Source Software. [Under Review].

Journal Reviewer

- 2024 o Academic reviewer for the journal *Social Networks*, Elsevier Editorial.

Software Development

- 2025 o Vega Yon, G., Olivera, A., Valente, T. (2025). *netdiffuseR: Analysis of Diffusion and Contagion Processes on Networks*. doi:10.5281/zenodo.1039317, R package version 1.23.0, github.com/USCCANA/netdiffuseR.

Other Academic Activities

- 2019, Speaker o Physics Forums, Title: *Battle of Reality*. Aula Magna CFM, Universidad de Concepción (UdeC).
- 2022, Speaker o Science, Talks and Beer, Title: *Anthology of Physics, a selection of eternal ideas*. Castillo Bar.
- 2025, Web Development o Creation, design, and deployment of the official website of the Political Behavior Laboratory *PoliCICS*. Center for Research in Social Complexity, Universidad del Desarrollo (UDD). Visit: policies.github.io.

Teaching Experience

- 04/2019 - 01/2020 **Teaching Assistant**, Universidad de Concepción, Concepción, Courses in Physics I, Physics II, and Physics III for the core Engineering program.
- 07/2021 - 12/2021 **Teaching Assistant**, Universidad de Concepción, Concepción, Statistical Physics course for the final year of the B.Sc. in Physics program.
- 06/2022 - 12/2023 **Physics and Mathematics Teacher**, Center for Improvement, Experimentation and Pedagogical Research, Concepción
- 08/2022 - 12/2023 **Physics Teacher**, Mozart Schule, Concepción, Elective Physics course.

- 03/2024 - 05/2024 **Mathematics Instructor**, Research Center for Social Complexity, Santiago, Doctoral-leveling courses.
- 08/2024 - 10/2024 **Assistant Instructor**, Research Center for Social Complexity, Santiago, Network Theory.
- 03/2025 - 05/2025 **Mathematics Instructor**, Research Center for Social Complexity, Santiago, Doctoral-leveling courses.
- 07/2024 - 09/2024 **Assistant Instructor**, Research Center for Social Complexity, Santiago, Network Theory.
- 07/2024 - 09/2024 **Assistant Instructor**, Research Center for Social Complexity, Santiago, Formal Political Economy.

Research Experience

- 04/2024 - 04/2025 **Research Assistant**, ANID, FONDECYT 1231131: The role of political expertise in collegiate decisions: The case of the 2021-2022 Chilean Constitutional Convention.
- 01/2025 - 05/2025 **Research Assistant**, ANID, FONDECYT 1210254: Risk and Prognosis of Recidivism among Closed-Regime Inmates in Chilean Prisons.
- 03/2025 - 12/2025 **Research Laboratory Coordinator**, Research Center for Social Complexity, Santiago, Coordination of Political Behavior Research (PoliCICS).

Skills and Interests

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| Languages | English: Advanced Proficiency. |
| Programming | R: Advanced Level.
Python: High Level. |
| Humanities | Second Place National, UNAB Literature Contest, 2016.
Third Place Regional, UNAB Litigation Contest, 2016.
Third Place Regional, UNAB Debate Contest, 2016.
Selected Short Story, <i>Antología Nuevas Esquirlas</i> Contest BAJ, 2018. |
| Sports | Mountain biking. |