

Aníbal Luciano Olivera Morales

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Personal Information

Born	1997 (Chile)
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Education

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

Honors and Awards

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

Scholarships and Grants

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

Research and Academic Activities

Conferences

- 2019, Attendee
 - o Winter School HEP-PUC, Topics on Gravitational, *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.
- 2026, Instructor o *Revisiting Surveys: A view from Complexity Sciences*. Summer School in Complex Systems 2026, Santiago, Chile.

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: policics.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 , <i>Center for Improvement, Experimentation and Pedagogical Research</i> , Concepción
08/2022 - 12/2023	Physics Teacher , <i>Mozart Schule</i> , Concepción, Elective Physics course.
03/2024 - 05/2024	Mathematics Instructor , <i>Research Center for Social Complexity</i> , Santiago, Doctoral-leveling courses.
08/2024 - 10/2024	Assistant Instructor , <i>Research Center for Social Complexity</i> , Santiago, Network Theory.
03/2025 - 05/2025	Mathematics Instructor , <i>Research Center for Social Complexity</i> , Santiago, Doctoral-leveling courses.
07/2024 - 09/2024	Assistant Instructor , <i>Research Center for Social Complexity</i> , Santiago, Network Theory.
07/2024 - 09/2024	Assistant Instructor , <i>Research Center for Social Complexity</i> , Santiago, Formal Political Economy.

Research Experience

04/2024 - 04/2025	Research Assistant , <i>ANID</i> , 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 , <i>ANID</i> , FONDECYT 1210254:, Risk and Prognosis of Recidivism among Closed-Regime Inmates in Chilean Prisons.
03/2025 - 12/2025	Research Laboratory Coordinator , <i>Research Center for Social Complexity</i> , Santiago, Coordination of Political Behavior Research (PoliCICS).

Skills and Interests

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.