

# Aníbal Luciano Olivera Morales

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## Personal Information

Born	1997 (Chile)
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## Education

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

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## 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> . |

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## Research and Academic Activities

### Conferences

- 2019, Attendee
  - o Winter School HEP-PUC, Topics on Gravitational, *Pontificia Universidad Católica de Chile* (PUC).
- 2019, Attendee
  - o 2<sup>nd</sup> UdeC School on CFT and String Theory, *Universidad de Concepción* (UdeC).
- 2022, Presenter
  - o 53<sup>rd</sup> 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: policics.github.io.

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## 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

- 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, *Antología Nuevas Esquirlas* Contest BAJ, 2018.
- Sports Mountain biking.