

# Aníbal Luciano Olivera Morales

## *Currículum Vitae*



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### Personal Information

Date of Birth 23/09/1997  
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### Education

2012 - 2015 **High School Education**, *Colegio Santa Sabina*, Concepción.  
03/2016 - 09/2019 **B.Sc. in Physics**, *Faculty of Physical and Mathematical Sciences*, Universidad de Concepción.  
03/2016 - 04/2022 **Professional Title of Physicist**, *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.

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### Honors and Awards

- 2012 - 2015 o Top Academic Achievement, Class of 2015, *Colegio Santa Sabina*.
- 2022 o Thesis Defense for the degree of Physicist, approved with maximum distinction (7.0 out of 7.0), *Universidad de Concepción (UdeC)*.
- 2022 o Thesis Defense for the M.Sc. in Physics, approved with maximum distinction (7.0 out of 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).

## 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.

## 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].

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

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## Work and 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**, *CPECH*, 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.
- 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.
- 08/2024 - 10/2024 **Assistant Instructor**, *Research Center for Social Complexity*, Santiago, Network Theory.
- 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).
- 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.

## 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.
- Business Workshop: Learn to Import from Anywhere in the World. Corfo, Desafío Latam, 2022.
- Sports Mountain biking.