


Eduardo Silva

Nationality: Chilean

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Date of birth: 01/04/1996

Gender: Male

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 **Address:** 75019 Paris (France)

EDUCATION AND TRAINING

Bachelor of Engineering Sciences, mention in Mathematics

University of Chile [2014 – 2018]

Address: Santiago (Chile)

Master in Applied Mathematics and Mathematical Engineering

University of Chile [2018 – 2020]

Address: Santiago (Chile)

M2 Mathématiques Fondamentales

Université Sorbonne Paris Nord [2020 – 2021]

Address: Paris (France)

RESEARCH EXPERIENCE

Master thesis: Subshifts on solvable non-abelian Baumslag-Solitar groups

[2019 – 2020]

We studied dynamical properties of subshifts on amenable non-abelian Baumslag-Solitar groups, generalizing results from multidimensional dynamics and generalizing the notion of substitutions to this family of groups.

Supervisor: Michael Schraudner, University of Chile.

M2 Stage

[2021 – Current]

We study relations between C^* -simplicity and the notion of having a trivial amenable radical, through a geometric perspective. We are also interested in construction of examples of simple groups of intermediate growth, through fragmentations of dihedral actions.

Supervisor: Romain Tessera, Université de Paris.

ACADEMIC DISTINCTIONS AND SCHOLARSHIPS

Academic Excellence Scholarship

[2016]

University of Chile

Distinguished Student

[2014 – 2018]

Bachelor of Engineering Sciences, mention in Mathematics, University of Chile

Graduation with highest honors

[2020]

Mathematical Engineering and Master in Applied Mathematics, University of Chile

M2 PGSM scholarship

[2020 – 2021]

Fondation Sciences Mathématiques de Paris

TEACHING ASSISTANT EXPERIENCES

Multivariable calculus, University of Chile

[2016 – 2017]

Abstract Algebra, University of Chile

[2017]

Functional Analysis, University of Chile

[2018 – 2020]

Measure Theory, University of Chile

[2018]

WORK EXPERIENCE

Statistical assistant

Center of Advanced Investigation in Education (CIAE) [2016 – 2017]

City: Santiago

Country: Chile

Statistics research on how students with a high math knowledge understand fractions, compared to people with a normal math background.

Research assistant

Computational Biology Lab, Fundación Ciencia y Vida [2017 – 2018]

City: Santiago

Country: Chile

Mathematical modeling of the interaction between proteins and water when passing through intercellular junctions.

Data scientist

VTR Globalcom S.A. [2019 – 2019]

City: Santiago

Country: Chile

Statistical analysis of Wi-Fi router data recollected from the clients of the company.

LANGUAGE SKILLS

Mother tongue(s):

Spanish

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

DIGITAL SKILLS

MATLAB&Simulink / SageMath / Python