Wagner da Rocha, Ph.D.

Postdoctoral Researcher

May 2, 1993 - Brazilian

Campinas, São Paulo - Brazil

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About me

Applied mathematician with research experience in distance geometry, scientific computing, and structural biology. My work focuses on algorithms, computational methods, and scientific software for molecular distance geometry problems, especially protein structure reconstruction from NMR data. I have conducted research at UNICAMP, École Polytechnique, and Université de Lorraine, combining mathematical modeling, optimization, data analysis, and large-scale simulations.

Skills

Mathematical Modeling

Mathematical Optimization

Linux OS | Bash/Shell Script

MATLAB | GNU Octave Programming

C Programming

Python Programming

Mathematica and R Programming

LaTeX

The skill scale is from 0 (Fundamental Awareness) to 5 (Expert).

Interests

- Distance Geometry, Discrete Mathematics, and Scientific Computing
- Protein structure reconstruction and structural biology
- Mathematical modeling for interdisciplinary problems

Education

2017 - 2022 Ph.D. in Applied Mathematics (Final Grade: A) — University of Campinas - Brazil
A New Vertex Order for Protein Graphs

2021-2022 Ph.D. Exchange Program — École Polytechnique - France
3D Protein Structure Calculation Using NMR Data

2015-2017 M.Sc. in Applied Mathematics (Final Grade: A) — University of Campinas - Brazil
Aspects of Complex Networks with Applications in Neuroscience

2015-2021 Teaching degree in Mathematics and Physics — University of Campinas - Brazil

2011-2014 B.Sc. Applied and Computational Mathematics with emphasis on Biomathematics and Numerical Analysis (Students Ranking: 2/32) — University of Campinas - Brazil
Study of Cancer Dynamics Considering a Treatment Factor

Experience

2025 - Today Postdoctoral Researcher (Research Funding Agency - FAPESP, Brazil)

- Developing algorithms, computational methods, and scientific software for the interval distance geometry problem with applications to structural biology.

★ Technology stack: Bash, C, Python, and VMD.

University of Campinas - Brazil

2022 - 2024 Postdoctoral Researcher (Research Funding Agency - ANR, France)

- Data analytics and engineering applied to a large protein database.
- Development of algorithms for interval molecular distance geometry and large-scale computational simulations for biomolecular structure determination.
- Application of supervised machine learning "Multi Support Vector Machine (multi-SVM)" algorithm for classification tasks, combined with the Stochastic Gradient Descent (SGD) method for optimizing kernel function parameters.
- High-Performance Computing on the EXPLOR mesocentre at Université de Lorraine.
- Co-supervision of three bachelor theses.

★ Technology stack: Bash, C, MATLAB | GNU Octave, Python, R, and VMD.

École Polytechnique & Université de Lorraine - France

2017 - 2022 Doctoral Researcher (Research Funding Agency - CAPES and CNPq, Brazil)

- Mathematical modeling and algorithm development for protein structure reconstruction from NMR data within the distance geometry framework.
- Development of discrete optimization algorithms for molecular structure characterization.
- High-Performance Computing on the Lugo and Virtual Lab clusters at IMECC/UNICAMP.
- Supervision of several lectures.

★ Technology stack: Bash, C, Mathematica, MATLAB | GNU Octave, and Python.

University of Campinas - Brazil

2012 - 2025 Teaching Assistant*

- Class Monitor of Calculus II, Calculus IV, Linear Algebra, Mathematics Applied to Biology, and Numerical Analysis I.
- Professor's Assistant of Calculus II, Calculus III, Methods of Applied Mathematics II, and Numerical Programming, and Lecturer of Analytic Geometry and Vectors.

* Course description on pages 5 to 6.

★ Technology stack: Mathematica, MATLAB | GNU Octave and R.

University of Campinas - Brazil

Other Information

- Throughout my Master's degree, I studied brain connectivity based on functional magnetic resonance images (fMRI) and graph theory. I participated in almost all fMRI data acquisition at the Clinics Hospital of the UNICAMP.
- From 2011 to 2017 and in 2020, I worked as a volunteer in community projects related to mathematics education and outreach.

Curriculum Vitae

Personal Information

Wagner da Rocha

Campinas
São Paulo
Brazil
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Lattes CV: `http://lattes.cnpq.br/5171808268756071`

Born on May, 2nd 1993
in Mogi-Guaçu - São Paulo, Brazil

Degree
Doctor of Science

Wagner da Rocha earned a Ph.D. and a Master's degree in Applied Mathematics from IMECC/UNICAMP, where he also completed a Bachelor's degree in Applied and Computational Mathematics, with emphasis on Biomathematics and Numerical Analysis, as well as teaching degrees in Mathematics and in Physics. His work combines applied mathematics, scientific computing, software development, and data-oriented research, with emphasis on algorithms, computational methods, and scientific software for distance geometry problems and protein structure determination from NMR data. His background also includes data analytics and engineering on large protein databases. He has university teaching experience in undergraduate mathematics and scientific computing courses, co-supervision experience at the undergraduate level, and academic service through program committees, event organization, and student representation. During his Master's studies, in collaboration with the Neurophysics Group at IFGW/UNICAMP, he investigated brain connectivity using functional magnetic resonance imaging and Graph Theory. He is currently a postdoctoral researcher at IMECC/UNICAMP.

Education

Mar/2017 - Jul/2022	Ph.D. in Applied Mathematics Dissertation: A New Vertex Order for Protein Graphs Supervisor: Carlile Lavor Co-supervisor: Ícaro Putinhon Caruso University of Campinas - Campinas - Brazil
Oct/2021 - Mar/2022	Ph.D. Exchange Program Project: 3D Protein Structure Calculation Using NMR Data Supervisor: Leo Liberti École Polytechnique - Palaiseau - France
Mar/2015 - Mar/2017	Master's degree in Applied Mathematics Thesis: Aspects of Complex Networks with Applications in Neuroscience Supervisor: Alberto Vazquez Saa Co-supervisor: Rickson Coelho Mesquita University of Campinas - Campinas - Brazil
Mar/2020 - Jul/2021	Teaching degree in Physics University of Campinas - Campinas - Brazil
Mar/2015 - Jul/2019	Teaching degree in Mathematics University of Campinas - Campinas - Brazil
Mar/2011 - Jul/2014	Bachelor's degree in Applied and Computational Mathematics with emphasis on Biomathematics and Numerical Analysis Monograph: A Study of Cancer Dynamics Considering a Treatment Factor Supervisor: Hyun Mo Yang University of Campinas - Campinas - Brazil

- Ph.D. dissertation title: *A New Vertex Order for Protein Graphs*

  Awarded on: 07th July 2022.

  Awarded by: University of Campinas, Brazil.

  Supervisors: Prof. Dr. C. Lavor and Prof. Dr. I.P. Caruso.

  Examiners: Prof. Dr. R.S.O. Alves, Prof. Dr. D.S. Gonçalves, Prof. Dr. L.L.S. Neto, and Prof. Dr. K.C. Poldi.

- Master's thesis title: *Aspects of Complex Networks with Applications in Neuroscience*
  Awarded on: 13th March 2017.
  Awarded by: University of Campinas, Brazil.
  Supervisors: Prof. Dr. A.V. Saa and Prof. Dr. R.C. Mesquita.
  Examiners: Prof. Dr. G. Castellano, Prof. Dr. C. Lavor.

Professional Activities

Apr/2025 - Today	Postdoctoral Researcher Project: *Computational Methods Applied to Biomolecular Structure Determination from the Perspective of Distance Geometry* Supervisor: Carlile Lavor University of Campinas - Campinas - Brazil
Aug/2025 - Dec/2025	Lecturer of *Analytic Geometry and Vectors* Description: Linear systems. Vectors and operations. Bases and coordinate systems. Distance, norm, and angle. Dot and cross products. Lines and planes. Relative positions, intersections, distances, and angles. School of Mechanical Engineering, University of Campinas - Campinas - Brazil
Dec/2022 - May/2024	Postdoctoral Researcher Project: multiBioStruct – *Multi-scale and multi-resolution bio-molecular structure determination by geometric approaches* Supervisors: Thérèse E. Malliavin and Leo Liberti École Polytechnique & Université de Lorraine - Palaiseau and Vandœuvre-lès-Nancy - France
Aug/2014 - Nov/2022	Mathematics Teacher Etec Pedro Ferreira Alves - Mogi Mirim - Brazil
Mar/2017 - Jul/2022	Doctoral Researcher Project: *Protein Graphs Based on Nuclear Magnetic Resonance Measurements* Supervisors: Carlile Lavor and Ícaro Putinhon Caruso University of Campinas - Campinas - Brazil & École Polytechnique - Palaiseau - France

Aug/2021 - Dec/2021	Professor's assistant of *Calculus II* Description: Functions of several real variables. Taylor's formula. Maximum and minimum. Multiple integrals. Line integrals. The divergence theorem. Stokes' Theorem. Supervisor: Prof. Dr. Roberta Regina Delboni University of Campinas - Campinas - Brazil
Mar/2020 - Aug/2020	Professor's assistant of *Methods of Applied Mathematics II* Description: Complex variable functions (revision). Integral transforms (Fourier and Laplace). Inverse transforms. Full representation of functions. Partial differential equations. Classification; well-posed problems. Wave, Heat, and Laplace equations. Separation of variables method. Introduction to integral equations. Variational Calculus. Supervisor: Prof. Dr. Rafael Luiz da Silva Rabelo University of Campinas - Campinas - Brazil
Aug/2017 - Dec/2017	Professor's assistant of *Calculus II* Description: Functions of several real variables. Taylor's formula. Maximum and minimum. Multiple integrals. Line integrals. The divergence theorem. Stokes' Theorem. Supervisor: Prof. Dr. João Batista Florindo University of Campinas - Campinas - Brazil
Mar/2017 - Jul/2017	Monitor of *Mathematics Applied to Biology* Description: Elements of Discrete Mathematics: recursion, probability, and combinatorial. Linear systems. Basic concepts of elementary calculus: graphic and computational study. Biology applications. Supervisor: Prof. Dr. Ricardo Antonio Mosna University of Campinas - Campinas - Brazil
Aug/2016 - Dec/2016	Monitor of *Linear Algebra* Description: Real vector spaces. Subspaces. Base and dimension. Linear transformations and matrices. Rank and nullity. Projections. Eigenvalues and eigenvectors. Inner product. Special real-matrix. Diagonalization. Supervisor: Prof. Dr. Maicon Ribeiro Correa University of Campinas - Campinas - Brazil

Mar/2016 - Jul/2016	Professor's assistant of *Calculus III* Description: Numerical series and series of functions. Ordinary differential equations. Laplace transforms. Systems of first order equations. Partial differential equations and Fourier series. Supervisor: Prof. Dr. Juliana Marta Rodrigues de Souza University of Campinas - Campinas - Brazil
Aug/2015 - Dec/2015	Professor's assistant of *Numerical Programming* Description: Floating-point arithmetic. Zeros of real functions. Linear systems. Polynomial interpolation. Numerical integration. Linear least squares. Numerical treatment of ordinary differential equations. Supervisor: Prof. Dr. Paulo José da Silva e Silva University of Campinas - Campinas - Brazil
Mar/2015 - Jul/2015	Monitor of *Numerical Analysis I* Description: Cholesky decomposition. Orthogonal factors. Linear least squares. Singular value decomposition. Iterative methods for solving linear systems. Introduction to solving nonlinear systems. Numeric calculation of eigenvalues and eigenvectors. Supervisor: Prof. Dr. Petronio Pulino University of Campinas - Campinas - Brazil
Aug/2014 - Dec/2014	Monitor of *Calculus IV* Description: Complex numbers. Complex variable functions. Cauchy-Riemann equations. Line integrals. Sequences and series of complex numbers. Polynomial remainder theorem. Calculation of integrals via residues. Conformational transformations. Supervisor: Prof. Dr. Nelson José Rodrigues Faustino University of Campinas - Campinas - Brazil
Mar/2012 - Jul/2012	Monitor of *Calculus II* Description: Functions of several real variables. Taylor's formula. Maximum and minimum. Multiple integrals. Line integrals. The divergence theorem. Stokes' Theorem. Supervisor: Prof. Dr. Marcia A. G. Scialom University of Campinas - Campinas - Brazil

Publications

2025 SECCHIN, L. D.; DA ROCHA, WAGNER; DA ROSA, M.; LIBERTI, L.; LAVOR, CARLILE. *A Hybrid Combinatorial-Continuous Strategy for Solving Molecular Distance Geometry Problems*. **Under review at** the Journal of Global Optimization.

2025 DA ROCHA, WAGNER; LAVOR, C.; LIBERTI, L.; DE MELO COSTA, L.; SECCHIN, L. D.; MALLIAVIN, THERESE. *An Angular Branch-and-Prune Algorithm for the Interval Discretizable Distance Geometry Problem*. **Under review at** the Journal of Global Optimization.

2024 DA ROCHA, WAGNER; LIBERTI, LEO; MUCHERINO, ANTONIO; MALLIAVIN, THÉRÈSE E. *Influence of stereochemistry in a local approach for calculating protein conformations*. Journal of Chemical Information and Modeling. American Chemical Society, v. 64, p. 8999-9008.

2024 DA ROCHA, WAGNER; MALLIAVIN, THERESE; MUCHERINO, ANTONIO; LIBERTI, LEO. *Impact of Local Geometry on Methods for Constructing Protein Conformations*. In: 19th Conference on Computer Science and Intelligence Systems (FedCSIS), Belgrade: IEEE, 2024, p. 677.

2023 DA ROCHA, WAGNER; LAVOR, CARLILE; LIBERTI, LEO; MALLIAVIN, THÉRÈSE E. *Pseudo-dihedral angles in proteins providing a new description of the Ramachandran map*. Lecture Notes in Computer Science. Berlin: Springer, v. 14072, p. 511-519.

2022 DA ROCHA, WAGNER. *A new vertex order for protein graphs*. Ph.D. thesis. Repository of Scientific and Intellectual Production of UNICAMP.

2021 LAVOR, CARLILE; OLIVEIRA, ANDRÊS; DA ROCHA, WAGNER; SOUZA, MICHAEL. *On the optimality of finding DMDGP symmetries*. Computational and Applied Mathematics, v. 40, p. 98.

2021 DA ROCHA, WAGNER; LAVOR, CARLILE. *Caracterização da Estrutura 3D de Proteínas Utilizando Dados de RMN*. In: XL Congresso Nacional de Matemática Aplicada e Computacional, Evento Virtual. Series of the Brazilian Society of Computational and Applied Mathematics, v. 8, p. 010066-1-010066-2.

2018 NOVI JUNIOR, SERGIO LUIZ; DA ROCHA, WAGNER; CARVALHO, ALEX DE CASTRO; SCAVARIELLO, GIOVANNI HERING; FORTI, RODRIGO MENEZES; GUIROGA SOTO, ANDRES FABIAN; OLIVEIRA, VINICIUS ROMERA; YASUDA, CLARISSA LIN; MESQUITA, RICKSON COELHO. *Development of Novel Methods to Investigate the Brain at Rest*. Revista Brasileira de Física Médica (Online), v. 11, p. 33-37.

2017 DA ROCHA, WAGNER; SAA, A.; MESQUITA, R. C. *Aspects of complex networks with applications in neuroscience*. Master's thesis. Repository of Scientific and Intellectual Production of UNICAMP.

Software

2026 DA ROCHA, WAGNER. *bpbm-3d-iddgp*: C implementation of Branch-and-Prune methods for the 3D interval discretizable distance geometry problem. Available on GitHub: github.com/wdarocha/bpbm-3d-iddgp.

2026 DA ROCHA, WAGNER. *pdb-parser*: Python toolkit for processing PDB structures and generating instances for distance geometry. Available on GitHub: github.com/wdarocha/pdb-parser.

Presentations

2026 DA ROCHA, WAGNER; LAVOR, C.; MALLIAVIN, THERESE. "*Effect of Stereochemical Variability on the Reconstruction of Protein Conformations Using a Distance Geometry Approach*" - Workshop Inaugural do Centro Brasileiro de Geometria - Campinas - Brazil

2026 DA ROCHA, WAGNER; SECCHIN, L. D.; LAVOR, CARLILE. "*Modelagem e Ordenação de Vértices em Grafos de Proteínas sob a Perspectiva da Geometria de Distâncias*" - III ERMAC-SC - Florianópolis - Brazil

2026 SECCHIN, L. D.; DA ROCHA, WAGNER; DA ROSA, M.; LIBERTI, L.; LAVOR, C. "*A Hybrid Combinatorial-Continuous Strategy for Solving Molecular Distance Geometry Problems*" - XV Brazilian Workshop on Continuous Optimization - Blumenau - Brazil

2025 DA ROCHA, WAGNER; LAVOR, C.; LIBERTI, L.; DE MELO COSTA, L.; SECCHIN, L. D.; MALLIAVIN, T. E. "*An Angular Branch-and-Prune Algorithm for the Interval Discretizable Distance Geometry Problem*" - XLIV CNMAC - Rio de Janeiro - Brazil

2025 DA ROCHA, WAGNER; LAVOR, C.; LIBERTI, L.; MALLIAVIN, T. E. "*Uma Nova Abordagem Branch-and-Prune para o PGDi Tridimensional*" - 35º Colóquio Brasileiro de Matemática - Rio de Janeiro - Brazil

2024 DA ROCHA, WAGNER. "*Calcul de la structure tridimensionnelle des protéines à l'aide de données de RMN.*" - Séminaire de Recherche - Maison du Brésil - Paris - France

2023 DA ROCHA, WAGNER; LAVOR, C.; LIBERTI, L.; MALLIAVIN, T. E. "*Pseudo-dihedral angles in proteins providing a new description of the Ramachandran map*" - GSI'23 - Saint Malo - France

2021 DA ROCHA, WAGNER; LAVOR, C. "*3D Protein Structure Calculation Using NMR Data*" - XL CNMAC - Online - Brazil

2020 DA ROCHA, WAGNER; LAVOR, C. "*3D Protein Structure Calculation Using NMR Data*" - X ERMAC-RS - Online - Brazil

2020 DA ROCHA, WAGNER; LAVOR, C. C. "*Caracterização da Estrutura Tridimensional de Proteínas Utilizando Geometria de Distâncias*" - 3rd Meeting of Biomathematics - IMECC/UNICAMP - Campinas - Brazil

2017 NOVI JUNIOR, S. L.; DA ROCHA, WAGNER; CARVALHO, A. C.; SCAVARIELLO, G. H.; R. M. Forti; SOTO, A. F. Q.; CORDEIRO, M. M.; MESQUITA, R. C.; YASUDA, C. L. "*Origins and Properties of the Human Brain at Rest: a Comparative NIRS and fMRI Study*" - 4th BRAINN Congress - FCM/UNICAMP - Campinas - Brazil

2017 DA ROCHA, WAGNER; CARVALHO, A. C.; NOVI JUNIOR, S. L.; R. M. Forti; SOTO, A. F. Q.; CORDEIRO, M. M.; YASUDA, C. L.; MESQUITA, R. C.; SAA, A. "*Motion Artefacts and Slice timing Correction can influence BOLD resting state results*" - 4th BRAINN Congress - FCM/UNICAMP - Campinas - Brazil

2017 NOVI JUNIOR, S. L.; DA ROCHA, WAGNER; CARVALHO, A. C.; SCAVARIELLO, G. H.; R. M. Forti; SOTO, A. F. Q.; CORDEIRO, M. M.; YASUDA, C. L.; MESQUITA, R. C. "*Desenvolvimento de Novos Métodos para Investigação do Cérebro durante o Estado de Repouso*" - 4th BRAINN Congress - FCM/UNICAMP - Campinas - Brazil

2017 NOVI JUNIOR, S. L.; DA ROCHA, WAGNER; CARVALHO, A. C.; SCAVARIELLO, G. H.; R. M. Forti; SOTO, A. F. Q.; OLIVEIRA, V. R.; YASUDA, C. L.; MESQUITA, R. C. "*Simultaneous NIRS and fMRI connectivity of the human brain at rest with graph theory*" - 4th BRAINN Congress - FCM/UNICAMP - Campinas - Brazil

2017 DA ROCHA, WAGNER; SAA, A.; MESQUITA, R. C. "*Aspects of Complex Networks with Applications in Neuroscience*" - 1st Week of Applied Mathematics - IMECC/UNICAMP - 4th BRAINN Congress - FCM/UNICAMP - Campinas - Brazil

2016 NOVI JUNIOR, S. L.; R. M. Forti; DA ROCHA, WAGNER; MESQUITA, R. C. "*A complex systems approach to studying hemodynamics with optical techniques*" - 3rd BRAINN Congress - FCM/UNICAMP - Campinas - Brazil

2014 DA ROCHA, WAGNER; YANG, H. M. "*Study of the Dynamics of Cancer Taking into account a Treatment Factor*" - XXII Internal Congress of UNICAMP - UNICAMP - Campinas - Brazil

2012	DA ROCHA, WAGNER; BASTIONI, L. "*O Construtor Arquimedes*" - IMECC/UNICAMP - Campinas - Brazil

Event Participation

2026	Workshop Inaugural do Centro Brasileiro de Geometria. UNICAMP - Campinas - Brazil
2026	III Regional Meeting of Applied and Computational Mathematics of Santa Catarina (ERMAC-SC). UFSC - Florianópolis - Brazil
2026	XV Brazilian Workshop on Continuous Optimization (Brazopt). UFSC - Blumenau - Brazil
2025	1st National Meeting on Popularization of Mathematics. UNICAMP - Campinas - Brazil
2025	XVIII Semana do IME. UERJ - Rio de Janeiro - Brazil
2025	XLIV National Congress of Applied and Computational Mathematics (CNMAC). FGV - Rio de Janeiro - Brazil
2025	35th Brazilian Mathematics Colloquium. IMPA - Rio de Janeiro - Brazil
2023	6th International Conference on Geometric Science of Information. Palais du Grand Large - Saint-Malo - France
2023	Interplay between AI and mathematical modelling in the post-structural genomics era. CIRM - Marseille - France
2022	Méthodes Algorithmiques pour les Structures et Interactions Macromoléculaires (MASIM): ML & Sampling. Paris Sorbonne Université - Paris - France
2021	XL National Congress of Applied and Computational Mathematics (CNMAC). UFMS - Online - Brazil

2020	X Regional Meeting of Applied and Computational Mathematics of Rio Grande do Sul (ERMAC-RS). UFRGS - Online - Brazil
2020	XV Scientific Meeting of the Graduate Students at the IMECC (EncPos). UNICAMP - Campinas - Brazil
2020	3rd Meeting of Biomathematics (EncBioMat). UNICAMP - Campinas - Brazil
2020	2nd Workshop on BioNMR. UNESP - Campinas - Brazil
2020	IV NMR School. UNESP - Campinas - Brazil
2019	XXVII Internal Congress of UNICAMP. UNICAMP - Campinas - Brazil
2019	9th International Congress on Industrial and Applied Mathematics. Valencia - Spain.
2017	XII Scientific Meeting of the Graduate Students at the IMECC (EncPos). UNICAMP - Campinas - Brazil
2017	1st Week of Applied Mathematics. UNICAMP - Campinas - Brazil
2017	4th BRAINN Congress. FCM/UNICAMP - Campinas - Brazil
2016	XI Scientific Meeting of the Graduate Students at the IMECC (EncPos). UNICAMP - Campinas - Brazil
2016	3rd BRAINN Congress. UNICAMP - Campinas - Brazil
2015	2nd National Symposium of Teacher's Training in Mathematics. Military College of Brasilia - Distrito Federal - Brazil
2015	X Scientific Meeting of the Graduate Students at the IMECC (EncPos). UNICAMP - Campinas - Brazil
2014	IX Scientific Meeting of the Graduate Students at the IMECC (EncPos). UNICAMP - Campinas - Brazil

2014	XXII Internal Congress of UNICAMP. UNICAMP - Campinas - Brazil
2012	VI Biennial of the Brazilian Society of Mathematics. UNICAMP - Campinas - Brazil

Event Organization

2026	DA ROCHA, WAGNER; SECCHIN, L. D. Mini-symposium on Distance Geometry: building bridges between Applied Mathematics and multidisciplinary challenges. Federal University of Santa Catarina - Florianópolis - Brazil
2025	SASAKI, D.; NICODEMOS, D.; ARAUJO, C.; GAMA, G.; BORCHERT, I.; DA ROCHA, WAGNER. Workshop "The Firefighter Game" - XVIII Semana do IME. Rio de Janeiro State University - Rio de Janeiro - Brazil
2025	DA ROCHA, WAGNER. Program Committee of "Um Dia na Universidade" - XVIII Semana do IME. Rio de Janeiro State University - Rio de Janeiro - Brazil
2023	DA ROCHA, WAGNER. Program Committee of the 21st International Symposium on Experimental Algorithms. Universitat Politècnica de Catalunya - Barcelona - Spain
2023	DA ROCHA, WAGNER. Program Committee of the 6th International Conference on Geometric Science of Information. Palais du Grand Large - Saint-Malo - France
2021	Application and correction of the XXXVII UNICAMP Mathematical Olympiad candidates' exams. University of Campinas - Campinas - Brazil
2016	XI Scientific Meeting of the Graduate Students at the IMECC. University of Campinas - Campinas - Brazil
2016	Application and correction of the XXXII UNICAMP Mathematical Olympiad candidates' exams. University of Campinas - Campinas - Brazil

2015	Application and correction of the XXXI UNICAMP Mathematical Olympiad candidates' exams. University of Campinas - Campinas - Brazil

Supervision

2024	Anja Matic. *Distance Geometry and the Raw NOE Data Problem*. Bachelor thesis co-supervision at École Polytechnique.
2024	Vu Ba Cong. *Applying the Distance Geometry Problem in finding protein structures*. Bachelor thesis co-supervision at École Polytechnique.
2024	Rali Lahlou. *Reconstructing protein conformation from NOE experiment results*. Bachelor thesis co-supervision at École Polytechnique.

Student Activities

Dec/2014 - Mar/2017	Student representative at the IMECC/UNICAMP Congregation. University of Campinas - Campinas - Brazil
Sep/2015 - Mar/2017	Student representative at the IMECC/UNICAMP Interdepartmental Council. University of Campinas - Campinas - Brazil

Language skills

English:

- Speaking C1, listening C1, reading C1, writing C1.

Spanish:

- Speaking B1, listening B2, reading B2, writing B2.

French:

- Speaking A0, listening A1, reading A1, writing A1.

Portuguese:

- Mother tongue.