

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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Paolo Piovano CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	PIOVANO
NOME	PAOLO
DATA DI NASCITA	22, 01,1982

**INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)**

Data

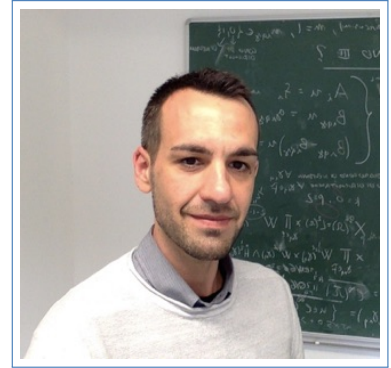
01/08/2019

Luogo

Vienna, Austria

Curriculum Vitæ

Paolo Piovano



CONTACT INFORMATION

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RESEARCH INTERESTS

My research areas are **PDEs**, **Mathematical Modeling**, and the **Calculus of Variations** with applications to **Materials Science**. The research program involves the investigation of models in **Continuum** and **Molecular Mechanics** with a focus on both free boundary problems and the atomistic setting. The applications includes the epitaxial growth of **thin films**, the optimal shapes of **crystal interfaces**, and the stability of **material nanostructures**. The methodology is based on configurational-energy minimization, isoperimetric characterization, Γ -convergence, dimension reduction, and minimizing-movement techniques.

EMPLOYMENT INFORMATION

Sep 2017 - Now **Project Leader and Senior Research Scientist**, Department of Mathematics, University of Vienna, Austria, and **head of the research group** on Variational Methods and Applications (website: <https://www.univie.ac.at/variationalmethods/>).

May 2019 **Habilitation Thesis submitted** at the Department of Mathematics of the University of Vienna, Austria.

Sep 2013 - Aug 2017 **Universitätsassistent**, Department of Mathematics, University of Vienna, Austria
Mentor Prof. Ulisse Stefanelli

Jun 2016 - Dec 2016 **Adjunct Professor**, Department of Mathematics, Webster University Vienna, Austria

Sep 2012 - Aug 2013 **Postdoctoral Associate**, National Research Council (CNR-IMATI), Pavia, Italy
Mentor Prof. Ulisse Stefanelli

EDUCATION

Sep 2009 - Aug 2012 **Ph.D. Studies**, Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA, USA. Ph.D. certificate on August 14, 2012.

Supervisors Prof. Irene Fonseca and Prof. Giovanni Leoni

Dissertation *Evolution and Regularity Results for Epitaxially Strained Thin Films and Material Voids*

Aug 2007 - Sep 2009	M.Sc. in Mathematics , Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA, USA. Supervisors Prof. Irene Fonseca and Prof. Giovanni Leoni
Feb 2007 - Jul 2007	Research Assistant (MIUR Grant PRIN 05), Department of Mathematics, University of Torino, Italy Mentor Prof. Paolo Cermelli
Sep 2004 - Jul 2006	M.Sc. in Mathematics , Department of Mathematics, University of Turin, Italy, grade: <i>Summa cum Laude et Mentione</i> . Supervisor Prof. Paolo Caldiroli Dissertation <i>Travelling Waves for Suspension Bridge Type Equations</i>
Sep 2001 - Sep 2004	B.Sc. in Mathematics , Department of Mathematics, University of Turin, Italy, grade: <i>Summa cum Laude</i> . Supervisor Prof. Paolo Cermelli Dissertation <i>Power Laws and Phase Transitions: an Application to Human Language</i>

PUBLICATIONS

15. Sh. Kholmatov, P. Piovano, A unified model for stress-driven rearrangement instabilities, *submitted* (2019), <http://arxiv.org/abs/1902.06535>.
14. L. Kreutz and P. Piovano, Microscopic validation of a variational model of epitaxially strained crystalline films, *submitted* (2019), <https://arxiv.org/abs/1902.06561>.
13. E. Davoli and P. Piovano, Derivation of a heteroepitaxial thin-film model, *submitted* (2018), <https://arxiv.org/abs/1809.07128>.
12. E. Davoli and P. Piovano, Analytical validation of the Young-Dupré law for epitaxially-strained thin films, *Math. Models Methods Appl. Sci.*, in press (2019), <https://arxiv.org/abs/1809.09991>.
11. E. Mainini, P. Piovano, B. Schmidt, and U. Stefanelli, $N^{3/4}$ law in the cubic lattice, *J. Stat. Phys.*, in press, published online (2019), <https://doi.org/10.1007/s10955-019-02350-z>.
10. M. Friedrich, E. Mainini, P. Piovano, and U. Stefanelli, Characterization of optimal carbon nanotubes under stretching and validation of the Cauchy-Born rule, *Arch. Ration. Mech. Anal.*, **231-1** (2019), 465–517, <https://doi.org/10.1007/s00205-018-1284-7>.
9. E. Mainini, H. Murakawa, P. Piovano, and U. Stefanelli, Carbon-Nanotube Geometries as Optimal Configurations, *Multiscale Model. Simul.*, **15-4** (2017), 1448–1471, <https://doi.org/10.1137/16M1087862>.
8. E. Davoli, P. Piovano, and U. Stefanelli, Sharp $N^{3/4}$ Law for the Minimizers of the Edge-Isoperimetric Problem on the Triangular Lattice, *J. Nonlinear Sci.*, **27-2** (2017), 627–660, <https://doi.org/10.1007/s00332-016-9346-1>.
7. M. Friedrich, P. Piovano, and U. Stefanelli, The Geometry of C_{60} : A rigorous Approach via Molecular Mechanics, *SIAM J. Appl. Math.*, **76-5** (2016), 2009–2029, <https://doi.org/10.1137/16M106978X>.
6. E. Davoli, P. Piovano, and U. Stefanelli, Wulff Shape Emergence in Graphene, *Math. Models Methods Appl. Sci.*, **26-12** (2016), 2277–2310, <https://doi.org/10.1142/S0218202516500536>.
5. E. Mainini, H. Murakawa, and P. Piovano, and U. Stefanelli, Carbon-Nanotube Geometries: Analytical and Numerical Results, *Discret. Contin. Dyn. Syst. Ser. S*, **10-1** (2017), 141–160, <https://doi.org/10.3934/dcdss.2017008>.
4. E. Mainini, P. Piovano, and U. Stefanelli, Crystalline and Isoperimetric Square Configurations, *Proc. Appl. Math. Mech.*, **14** (2014), 1045–1048, <https://doi.org/10.1002/pamm.201410494>.

3. E. Mainini, P. Piovano, and U. Stefanelli, Finite Crystallization in the Square Lattice, *Nonlinearity*, **27** (2014), 4:717-737, <https://doi.org/10.1088/0951-7715/27/4/717>.
2. P. Piovano, Evolution of Elastic Thin Films with Curvature Regularization via Minimizing Movements, *Calc. Var. Partial Differential Equations*, **49** (2014), 337-367 <https://doi.org/10.1007/s00526-012-0585-1>.
1. P. Piovano, Evolution and Regularity Results for Epitaxially Strained Thin Films and Material Voids, *ProQuest; Thesis (Ph.D.)-Carnegie Mellon University* 2012, Vol. **74-01(E)**, Sect. B., p. 108. ISBN: 9781267655349, available at <https://repository.cmu.edu/dissertations/>.

GRANTS AS PRINCIPAL INVESTIGATOR

- 11-15 Nov 2019 *Organizer* together with U. Diebold (TU Vienna) and I. Fonseca (CMU, Pittsburgh) of the workshop supported by the Erwin Schrödinger International institute (ESI), (title: Modeling of Crystalline Interfaces and Thin Film Structures: a Joint Mathematics-Physics Symposium, budget: 14.4K€ , website: <https://www.esi.ac.at/activities/events/2019/modeling-of-crystalline-interfaces-and-thin-film-structures>).
- Sep 2017 - Aug 2021 *Principal Investigator (PI)* for the grant awarded by the Austrian Science Fund (FWF) in the framework of the [Stand-Alone Projects](#) (title: Optimal Shapes of Crystal Interfaces (OSCI), budget: ~332.3K€ , website: <https://osci.univie.ac.at>).
- Jul 2017 - Aug 2021 *PI* for the grant with co-PI U. Diebold (TU Vienna) awarded by the Vienna Science and Technology Fund (WWTF) in the framework of the [2016 Program "Mathematics and..."](#) (title: Modeling and DEsign of epitaxially strained NAnoislans (MODENA), budget: 596.2K€ , website: <https://modena.univie.ac.at>).

PROJECT TEAM MEMBER

- Jan 2019 - Dec 2020 *Co-author and co-applicant* for the research project with PI Sh. Kholmatov (Vienna): FWF Lise-Meitner Program (title: Liquid and Crystalline Films: Wetting and Evolution, period: 2019-2020, budget: ~156K€).
- Jan 2019 - Dec 2020 *Team member* for the research projects with PIs E. Davoli (Vienna) and M. Kružić (UTIA, Prague): WTZ Scientific and Technological Cooperation Project of the OeAD (title: Mathematical Frontiers in Large Strain Continuum Mechanics, period: 2019-2020, budget: 7K€), FWF-GACR Joint International Project (title: Large Strain Challenges in Materials Science, country: Czech Republic, period: 2019-2021, budget: ~366K€).
- Sep 2015 - Aug 2017 *Team member* for the research projects with PI U. Stefanelli (Vienna): WTZ Scientific and Technological Cooperation Project of the OeAD (title: Thermomechanics of solids: modeling, analysis, and simulations, period: 2016-2018, budget: 7K€), FWF-GACR Joint International Project (title: Variational Structures in Thermomechanics of Solids, period: 2016-2019, budget: ~109K€), WWTF "Mathematics and .." Grant (title: Variational Modeling of Carbon Nanostructures, period: 2015-2018, budget: ~540K€), FWF Grant (title: Global Variational Methods for Nonlinear Evolution, period: 2015-2017, budget: ~330K€).
- Sep 2009- Aug 2012 *Research Fellowships* for the research projects with PI G. Leoni (CMU, Pittsburgh): American National Science Foundation (NSF) Grant No. DMS-0708039 (title: Modern methods in the Calculus of Variations with applications to materials science and hydrodynamics, budget: ~132K\$), Grant No. DMS-1007989 (title: Variational methods for materials science, mechanics, and imaging, period: 2010-2014, budget: ~300K\$).
- Sep 2007- Aug 2009 *Research Fellowships* for the research projects with PI I. Fonseca (CMU, Pittsburgh): American National Science Foundation (NSF) Grant No. DMS-0401763 (title: Variational Problems and their Applications, budget: ~500K\$) and Grant No. DMS-0905778 (title: Variational Methods in Imaging and in Materials, budget: ~1170K\$).

PERSONAL RESEARCH GROUP

- Name: *Variational Methods and Applications*, Faculty of Mathematics, University of Vienna.
- Website: <https://www.univie.ac.at/variationalmethods/>
- Postdoc Members: - Dr. Leonard Kreutz for a year from September 18, 2017;
- Dr. Shokhrukh Kholmatov from October 1, 2017;
- PhD Student: - Randy Llerena from September 1, 2019 (in co-supervision with Prof. Jean-François Babadjian, University Paris Sud).
- Predocs: Mr. Filipp Lausch, Bachelor thesis at the Department of Mathematics, University of Vienna with thesis dissertation on January 20, 2016.

COOPERATION RESEARCH PARTNERS

I. Fonseca, G. Leoni (Carnegie Mellon University, Pittsburgh, USA); H. Murakawa (Kyushu University, Fukuoka, Japan); B. Schmidt (Augsburg, Germany); M. Friedrich, L. Kreutz (Münster, Germany); P. Caldirolì, P. Cermelli (Turin, Italy); E. Mainini (Genoa, Italy); Stefan Krömer, Martin Kružík (Prague, Czech Republic); Igor Velčić (Zagreb, Croatia); E. Davoli, Sh. Kholmatov, U. Stefanelli (Vienna, Austria); U. Diebold (TU Vienna); F. Jenner (University of Veterinary Medicine, Vienna).

SCIENTIFIC VISITS

- Sep 2015 - May 2019 *Visiting Scholar* at the Institute of Information Theory and Automation, Academy of Sciences, Prague, Czech Republic under the invitation of Prof. Martin Kružík in the periods: September 16 - 20, 2015; March 20 - 25, 2016; June 27 - 30, 2017; November 11-15, 2018; May 14-17, 2019.
- May 30 - Jul 15, 2016 *Invitation to the Thematic Program* on “Nonlinear Flows” held at the ESI, Vienna.
- Jan 2013 - Feb 2015 *Visiting Scholar* at the Center for Nonlinear Analysis, Carnegie Mellon University, Pittsburgh, PA, USA under the invitation of Prof. Irene Fonseca in the periods: Jan 31 - Feb 8, 2015; Mar 15 - 23, 2014; May 24 - June 7 2013; Jan 6 - 13, 2013.
- Sep 29 - Nov 21, 2014 *Invitation to the Thematic Program* on “Minimal Energy Point Sets, Lattices and Designs” held at the ESI, Vienna.
- Jul 12 - 20, 2014 *Participation in the IAS/PCMI Research Program* at the 24th Annual Summer Session on “Mathematics and Materials” held at IAS/PCMI, Salt Lake City, UT, USA.
- Mar 3-8, Apr 3-13, '13 *Intensive Period* on “Evolution Problems in Fracture Mechanics” at SISSA, Trieste, Italy.
- Oct 2011 - Mar 2012 *Visiting Scholar* at the Department of Mathematics and Application, University of Naples, Italy, under the mentorship of Prof. Nicola Fusco.

PRESENTATIONS

- Nov 18-20, 2019 *Schedule Invited Presentation* at the Workshop “Recent Advances in Mechanics and Mathematics of Materials” (RAM3), Rome, Italy.
- Feb 22, 2019 *Invited Talk* at GAMM Annual Meeting (S14 - Applied analysis), Vienna, Austria.
- Nov 12, 2018 *Invited Lecture* at the “Nečas Seminar on Continuum Mechanics” held at the Mathematical Institute of Charles University, Prague, Czech Republic.
- Nov 1, 2018 *Invited Seminar* at the Oberwolfach Workshop on “Emergence of Structures in Particle Systems: Mechanics, Analysis and Computation” held at MFO, Oberwolfach, Germany.
- Sep 20, 2018 *Invited Seminar* at the joint PTM-SIMAI-UMI Mathematical Meeting that will be held in Wrocław, Poland.
- July 5-9, 2018 *Two Invited Seminars* in the sessions SS75 “Mathematics and materials: models and applications” and SS144 “Analytic properties and numerical approximation of differential models arising in applications”, respectively, at the 12th AIMS Conference on “Dynamical Systems, Differential Equations and Applications” held in Taipei, Taiwan.

- June 29, 2018 *Invited Seminar* in the framework of the Applied Analysis Day at TU Dresden, Germany.
- May 21, 2018 *Scheduled Invited Seminar* at the BIRS Workshop on “Topics in the Calculus of Variations: Recent Advances and New Trends” held at The Banff Centre in Banff, Alberta, Canada.
- Feb 16, 2018 *Invited Seminar* at the “XXVIIIth Convegno Nazionale di Calcolo delle Variazioni” held in Levico Terme, Italy.
- Jan 18, 2018 *Invited Seminar* at the DK Winter Workshop & SFB Internal Meeting held in Reichenau an der Rax, Austria.
- May 25, 2017 *Invited Talk* at the International Conference on “Elliptic and Parabolic Problems” held Gaeta, Italy.
- April 4, 2017 *Invited Seminar* at the Workshop “Modern challenges in continuum mechanics” held at the University of Zagreb, Croatia.
- Nov 10, 2016 *Invited Lecture* at the Augsburg-Munich Seminar, Institut für Mathematik, Universität Augsburg, Germany.
- Sep 12, 2016 *Invited Lecture* at the University of Zagreb, Croatia.
- Jun 15, 2016 *Invited Talk* at the Workshop on “Entropy methods, dissipative systems, and applications”, held at the Erwin Schrödinger International Institute for Mathematical Physics (ESI), Vienna, Austria (May 30 - 15).
- Mar 21, 2016 *Invited Lecture* at the “Nečas Seminar on Continuum Mechanics” held at the Mathematical Institute of Charles University, Prague, Czech Republic.
- Feb 24, 2016 *Invited Seminar* at the ERC Workshop on “Modeling Materials and Fluids Using Variational Methods” held at Weierstraß-Institut für Angewandte Analysis und Stochastik (WIAS), Berlin, Germany.
- Jul 2, 2015 *Invited Talk* at the Workshop on “Trends in Non-Linear Analysis” held at SISSA, Trieste, Italy (July 1 - 3).
- Apr 30, 2015 *Invited Lecture* at the Analysis and Geometry Seminar of the American University of Beirut, Lebanon.
- Mar 27, 2015 *Invited Talk* at the GAMM Annual Meeting (S14 - Applied analysis), Lecce, Italy (March 23 - 27).
- Oct 16, 2014 *Invited Talk* at the Workshop on “Optimal Point Configurations and Applications” held at the Erwin Schrödinger International Institute for Mathematical Physics (ESI), Vienna, Austria (October 13 - 17).
- Sep 8, 2014 *Invited Talk* at the XIXth Symposium on Trends in Applications of Mathematics to Mechanics (STAMM), held in Poitiers, France (September 8 - 11).
- Apr 23, 2014 *Invited Talk* at the SFB ViCoM: Young Researchers Meeting held in Vienna, Austria (April 22 - 23).
- Mar 11, 2014 *Invited Talk* at GAMM Annual Meeting Minisymposium hosted by FAU Erlangen-Nürnberg, Germany (March 10 - 14).
- Jun 9, 2013 *Poster Presentation* at the SIAM Conference on “Mathematical Aspects of Materials Science (MS13)” held in Philadelphia, PA, USA (June 9 - 12).
- May 30 - Jun 7, 2013 *Poster Presentation* at the CNA Summer School held at Carnegie Mellon University, Pittsburgh, PA, USA.
- Feb 7, 2013 *Invited Talk* at the conference “XXIIIrd Convegno Nazionale di Calcolo delle Variazioni”, held in Levico Terme, Italy (February 4 - 8).
- Sep 25, 2012 *Institute Seminar* at IMATI-CNR, Pavia, Italy.
- Sep 10 - 12, 2012 *Poster Presentation* at the workshop “Variational Models and Methods for Evolution” held in Levico Terme, Italy.
- Feb 21, 2012 *Department Seminar* at the Institute for Computational and Applied Mathematics, University of Münster, Germany.
- Jan 6, 2012 *Accepted Talk* at the AMS Special Session of the Joint Mathematics Meetings held in Boston (January 4 - 7).

Nov 14, 2011 *Contributed Talk* at SIAM Conference on “Analysis of Partial Differential Equations (PD11)” held in San Diego, California (November 14 - 17).

EVENT ORGANIZATION

- Nov 11 - 15, 2019 *Workshop organizer* together with *U. Diebold* (TU Vienna) and *I. Fonseca* (CMU, Pittsburgh) of the workshop hosted at the Erwin Schrödinger International institute (ESI), Vienna, with title: Modeling of Crystalline Interfaces and Thin Film Structures: a Joint Mathematics-Physics Symposium, website: <https://www.esi.ac.at/activities/events/2019/modeling-of-crystalline-interfaces-and-thin-film-structures>).
- Oct 2, 2013 *Invitation to the Roundtable Session* on “The International Researcher” at the ERC-PIRE Workshop on “Evolution Problems for Material Defects: Dislocations, Plasticity, and Fracture” held at SISSA, Trieste, Italy (September 30 - October 4).
- Jun 24 - 26, 2013 Participation in the *organization of the ERC Workshop* on “Variational Views in Mechanics and Materials” held at the University of Pavia, Italy.

MEMBERSHIPS AND AFFILIATIONS

- Jun 2017 Member of the *commission for the habilitation* at the University of Vienna of Dr. Dietmar Ölz, School of Mathematics and Physics, University of Queensland, Australia
- Feb 2016 - Now Affiliated to INDAM/GNAMPA at the research unit of National Research Council (CNR-IMATI), Pavia, Italy
- Jan 2014 - Now Member of the International Society for the Interaction of Mechanics and Mathematics (ISIMM)

JOURNAL REVIEW ACTIVITIES

- For *Archive for Rational Mechanics and Analysis*, Springer Berlin Heidelberg (<https://link.springer.com/journal/205>).
- For *SIAM Journal on Mathematical Analysis (SIMA)*, Society for Industrial and Applied Mathematics (<https://www.siam.org/journals/sima.php>).
- For *Meccanica*, Springer, (<https://link.springer.com/journal/11012>).
- For *Discrete and Continuous Dynamical Systems - S (DCDS-S)*, American Institute of Mathematical Sciences (<https://aimsciences.org/journals/home.jsp?journalID=15>).

STUDENT AWARDS

- Nov 2011 *AMS Grad Student Travel Grant* for the Joint Mathematics Meetings, Boston, MA, January 4 - 7, 2012.
- Jul 2011 *SIAM Student Travel Award* to attend the SIAM Conference on “Analysis of Partial Differential Equations (PD11)” held in San Diego, CA, November 14 - 17, 2011.
- Aug 2010 - May 2011 *Teaching assistantship* granted to support Ph.D. studies funded by the Department of Mathematical Sciences, Carnegie Mellon University.
- Feb 2007 - Jul 2007 *Research fellowship* in the framework of a MIUR founded research project (PRIN 05), Department of Mathematics, University of Torino, Italy.

TEACHING TRAINING

- Sep 2017 - Sep 2018 Nominated by the Faculty of Mathematics, University of Vienna to attend the *Teaching Competence Plus* certificate course (<https://ctl.univie.ac.at/veranstaltungen/zertifikatskurs/>) of the Center for Teaching and Learning (CTL), University of Vienna. Certificate awarded on November 21, 2018.
- Apr 2012 CNA (Center for Nonlinear Analysis, CMU)-PIRE Workshop on *Course and Syllabus Design* held by Marie Norman, associate director of Eberly Center for Teaching Excellence (<https://www.cmu.edu/teaching/eberly/>).

- Sep 2008 - Sep 2011 *Teaching Training* at the Intercultural Communication Center, Carnegie Mellon University (<https://www.cmu.edu/icc/>).
- Apr 2010 *International Teaching Assistant (ITA) Test* was passed. ITA Test is required by both Pennsylvania Law and Carnegie Mellon policy for nonnative speakers before they can work as teaching assistants.
- Spring 2010 Successful attendance of the course on *Language and Culture for Teaching* held by P. A. Heidish, Director of the Intercultural Communication Center, Carnegie Mellon University.

TAUGHT COURSES

- Sept 2017- Now *Lecturer* at the University of Vienna, Department of Mathematics for the following courses:
 Fall 2019 - “Sobolev Spaces and the Calculus of Variations”, graduate level.
 Spring 2018 - “Topics in the Calculus of Variations” (with E. Davoli and U. Stefanelli), graduate level (see <https://www.mat.univie.ac.at/~stefanelli/tcdv.html>).
- Oct 2013 - Aug 2017 *Teaching Assistant* at the University of Vienna, Department of Mathematics for the following courses:
 Fall 2016 - “Partielle Differentialgleichungen”, undergraduate level.
 Spring 2016 - “Analysis”, undergraduate level (see https://complex.univie.ac.at/fileadmin/user_upload/p_complex_analysis/skriptenlame1/Analysis_2016.pdf).
 Fall 2015 - “Höhere Analysis und Differentialgeometrie”, undergraduate level (see <https://www.mat.univie.ac.at/~stefanelli/hoehereanalysis.html>).
 Spring 2015 - “Analysis”, undergraduate level (see <https://www.mat.univie.ac.at/~stefanelli/analysis.html>).
 Fall 2014 - “Einführung in die Analysis”, undergraduate level (see <https://www.mat.univie.ac.at/~stefanelli/einfuehrung.html>);
 Fall 2014 - “Einführung in das mathematische Arbeiten”, undergraduate level (see <https://www.mat.univie.ac.at/~einfuehrung/index.html>);
 Fall 2013 - “Modellierung”, undergraduate level (see <https://homepage.univie.ac.at/christian.schmeiser/MOD-WS1314.htm>);
- Jun 2016 - Dec 2016 *Lecturer* at Webster University Vienna, for the following course:
 Fall 2016 - “College Algebra”, undergraduate level (see <http://webster.ac.at/mathematics>).
- Aug 2010 - May 2011 *Teaching Assistant* at Carnegie Mellon University, Department of Mathematics for the following courses:
 Spring 2011 - “Calculus in Three Dimensions”, undergraduate level (around 100 students);
 Fall 2010 “Differential Equations”, undergraduate level (around 100 students).

LANGUAGES

- German B2/2 Level, certificate from Innovationszentrum, University of Vienna on September 6, 2017.
- English Fluent, ITA Test successfully passed at Carnegie Mellon University on April 23, 2010.
- Italian Mother tongue.

Vienna, July 15, 2019

Signature:

