

PERSONAL INFORMATION	Chiara Corsato
	Department of Economics, Business, Mathematics and Statistics, University of Trieste - Via Tigor, 22, 34124, Trieste (Italy)
	🖂 ccorsato@units.it
	Date of birth May 30, 1986
CURRENT POSITION	
November 10, 2017 – present	Post-doc researcher
	Research field: <i>Quantitative Analysis and Assessment of Risks in Finance and Insurance</i> Department of Economics, Business, Mathematics and Statistics, University of Trieste Advisor: Prof. Paolo Vicig
PAST POSITIONS	
November 10, 2015 – November 9,	Post-doc researcher
2017	Research field: <i>Quantitative Analysis and Assessment of Risks in Finance and Insurance</i> Department of Economics, Business, Mathematics and Statistics, University of Trieste Advisor: Prof. Anna Rita Bacinello
QUALIFICATIONS	
April 28, 2015	Ph.D. title in Mathematical Analysis
, prii 20, 2010	School of Doctorate in Environmental and Industrial Fluid Mechanics, University of Trieste
	Qualification awarded cum laude Title of the thesis: <i>Mathematical analysis of some differential models involving the Euclidean</i> <i>or the Minkowski mean curvature operator</i> Advisor: Prof. Pierpaolo Omari
July 16, 2013	Qualification for teaching Mathematics and Science at scuola secondaria di primo grado
	Tirocinio Formativo Attivo, University of Trieste
	Final mark: 99/100
October 20, 2010	Master degree in Mathematics
	University of Udine
	Graduation mark: 110/110 cum laude Title of the thesis: <i>Problemi ai limiti per equazioni differenziali fortemente non lineari</i> Advisor: Prof. Fabio Zanolin
July 16, 2008	Bachelor degree in Mathematics
	University of Udine
	Title of the thesis: <i>Il problema isoperimetrico del cerchio e argomenti connessi</i> Advisor: Prof. Fabio Zanolin

PUBLICATIONS

- 1. C. Corsato, R. Pelessoni, P. Vicig, *Generalising the Pari-Mutuel Model*. In: S. Destercke, T. Denoeux, M.A. Gil, P. Grzegorzewski, O. Hryniewicz, Uncertainty Modelling in Data Science (to appear)
- C. Corsato, C. De Coster, F. Obersnel, P. Omari, A. Soranzo, A prescribed anisotropic mean curvature equation modeling the corneal shape: a paradigm of nonlinear analysis, Discrete Contin. Dyn. Syst. Ser. S 11 2018), no. 2, 213–256
- C. Corsato, R. Pelessoni, P. Vicig, Weak Dutch Books versus Strict Consistency with Lower Previsions. In: Proceedings of the Tenth International Symposium on Imprecise Probability: Theories and Applications (ISIPTA '17). Proc. Mach. Learn. Res. 62 (2017), 85–96
- 4. C. Corsato, R. Pelessoni, P. Vicig, *Weak Dutch Books with Imprecise Previsions*, Int. J. Approx. Reason. 88 (2017), 72–90
- C. Corsato, F. Obersnel, P. Omari, *The Dirichlet problem for gradient dependent prescribed mean curvature equations in the Lorentz-Minkowski space*, Georgian Math. J. 24 (2017), 113–134
- 6. C. Corsato, P. Omari, F. Zanolin, *Subharmonic solutions of the prescribed curvature equation*, Commun. Contemp. Math. 18 (2016) 1550042 (33 pages)
- C. Corsato, C. De Coster, P. Omari, *The Dirichlet problem for a prescribed anisotropic mean curvature equation: existence, uniqueness and regularity of solutions*, J. Differ. Equations 260 (2016), 4572–4618
- C. Corsato, C. De Coster, P. Omari, *Radially symmetric solutions of an anisotropic mean curvature equation modeling the corneal shape*. In: Discrete Contin. Dyn. Syst. 2015, Dynamical systems, differential equations and applications. 10th AIMS Conference. Suppl. (2015), 297–303
- 9. I. Coelho, C. Corsato, S. Rivetti, *Positive radial solutions of the Dirichlet problem for the Minkowski-curvature equation in a ball*, Topol. Methods Nonlinear Anal. 44 (2014), 23–39
- I. Coelho, C. Corsato, P. Omari, A one-dimensional prescribed curvature equation modeling the corneal shape, Bound. Value Probl. 2014, 2014:127. Available at: http://www. boundaryvalueproblems.com/content/2014/1/127
- 11. C. Corsato, F. Obersnel, P. Omari, S. Rivetti, *On the lower and upper solution method for the prescribed mean curvature equation in Minkowski space*, Discrete Contin. Dyn. Syst. (2013), Supplement 2013 (2013), 159–169
- C. Corsato, F. Obersnel, P. Omari, S. Rivetti, *Positive solutions of the Dirichlet problem for the prescribed mean curvature equation in Minkowski space*, J. Math. Anal. Appl. 405 (2013), no. 1, 227–239
- 13. I. Coelho, C. Corsato, F. Obersnel, P. Omari, *Positive solutions of the Dirichlet problem for the one-dimensional Minkowski-curvature equation*, Adv. Nonlinear Stud. 12 (2012), 621–638

CONTRIBUTIONS GIVEN AT CONFERENCES	
September 27 – 29, 2018 (planned)	Invited talk, GEDO, Giornate di Equazioni Differenziali Ordinarie: metodi e prospettive, Marche Polytechnic University, Ancona
September 17 – 21, 2018 (planned)	<i>Generalising the Pari-Mutuel Model</i> , SMPS 2018/BELIEF 2018, Soft Methods in Probability and Statistics/Theory of Belief functions, University of Technology of Compiègne (France)

September 9 – 11, 2018 (planned)	<i>On the optimal design of participating life insurance contracts</i> , EAJ 2018, European Actuarial Journal Conference, Catholic University of Leuven (Belgium)
September 14 – 16, 2017	Weak Dutch Books with imprecise previsions, 41st AMASES Meeting, Association for Mathe- matics applied to Economics and Social Sciences, University of Cagliari
July 10 – 14, 2017	Weak Dutch Books versus strict consistency with lower previsions, ISIPTA '17 - ECSQARU 2017, International Symposium on Imprecise Probability: Theories and Applications - European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, University of Italian Switzerland, Lugano (Switzerland)
January 23 – 25, 2017	Invited talk <i>Subharmonic solutions of the prescribed curvature equation</i> , Nonlinear Meeting in Udine 2017, University of Udine
February 4, 2016	<i>On the Dirichlet problem for a prescribed anisotropic mean curvature equation</i> , Workshop BVP in FVG, SISSA, Trieste
May 14, 2015	How to describe the geometry of the cornea?, Joint UNITS - SISSA workshop on Applied Math in Fluid Mechanics, SISSA, Trieste
July 7 – 11, 2014	Subharmonic solutions of the prescribed curvature equation, 10th AIMS Conference on Dy- namical Systems, Differential Equations and Applications, Autonomous University of Madrid (Spain)
May 28 – 31, 2012	<i>Positive solutions of the Minkowski-curvature equation</i> , Spring School in Nonlinear Partial Differential Equations, Free University of Brussels (Belgium)
SEMINARS DELIVERED	
November 20, 2017	Invited seminar Weak Dutch Books: the lose-or-draw case with imprecise previsions, Univer- sity of Milano - Bicocca
April 6, 2017	Weak Dutch Books with imprecise previsions, University of Trieste
April 16, 2015	Analisi di alcuni modelli basati sull'operatore di curvatura media, University of Trieste
November 20, 2014	On the Dirichlet problem for a prescribed anisotropic mean curvature equation, University of Valenciennes and Hainaut - Cambrésis (France)
November 12, 2014	On some mathematical models involving the mean curvature operator in Euclidean or Minkowski space, on the occasion of the annual open ceremony of the Doctoral School in Earth Science and Fluid Mechanics, ICTP, Trieste
July 10, 2014	Un'equazione della curvatura anisotropa che modellizza la geometria della cornea, University of Udine
January 10, 2014	<i>Capillarity-type equations</i> , on the occasion of the annual open ceremony of the Doctoral School in Earth Science and Fluid Mechanics, ICTP, Trieste
December 3, 2013	The mean curvature equation in Minkowski or Euclidean spaces, with applications, University of Trieste
November 14, 2013	Solvability of a prescribed curvature equation describing the corneal shape, University of Va- lenciennes and Hainaut - Cambrésis (France)
November 13, 2011	Positive solutions of the curvature equation in Minkowski space, University of Trieste
POSTERS PRESENTED	
September 17 – 21, 2018 (planned)	Generalising the Pari-Mutuel Model, SMPS 2018/BELIEF 2018, Soft Methods in Probability and Statistics/Theory of Belief functions, University of Technology of Compiègne (France)
July 10 – 14, 2017	Weak Dutch Books versus strict consistency with lower previsions, ISIPTA '17 - ECSQARU 2017, International Symposium on Imprecise Probability: Theories and Applications - European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, University of Italian Switzerland, Lugano (Switzerland)

November 26, 2013	Invited poster <i>Subharmonic solutions of the prescribed curvature equation</i> , National Academy of Lincei, Rome
October 28 – 31, 2013	Subharmonic solutions of the prescribed curvature equation, Nord Pas de Calais/Belgium congress of mathematics, University of Valenciennes and Hainaut - Cambrésis (France), University of Mons (Belgium)
VISITING PERIODS	
November 20 – 21, 2017	Department of Statistics and Quantitative Methods, University of Milano - Bicocca
September 1 – December 5, 2014	LAMAV, Laboratoire de Mathématiques et leurs Applications, University of Valenciennes and Hainaut - Cambrésis (France), in the frame of the program Doctor Europaeus
October 28 – November 17, 2013	LAMAV, Laboratoire de Mathématiques et leurs Applications, University of Valenciennes and Hainaut - Cambrésis (France)
INTERNATIONAL ACADEMIC TRAINING	
September 2009 – January 2010	Erasmus student at Pierre and Marie Curie University, Paris VI (France)
CONFERENCES OR SCHOOLS ATTENDED	
June 5 – 9, 2017	ICDDEA 2017, International Conference on Differential & Difference Equations and Applica- tions, Military Academy, Amadora (Portugal)
January 26 – 27, 2017	Workshop on Quantitative Finance, University of Milano - Bicocca
September 12 – 14, 2016	SMPS 2016, Soft Methods in Probability and Statistics, University La Sapienza, Rome
October 10, 2014	Journée du Laboratoire Painlevé et de la Fédération (Fédération de Recherche Mathématique du Nord-Pas de Calais), University of Lille 1 (France)
October 6 - 7, 2014	Neuvièmes Journées EDP, Lille - Littoral - Valenciennes, Université de Lille 1 (France)
May 28 – 30, 2014	NPDE 2014, Recent Trends in Nonlinear Partial Differential Equations and Applications, University of Trieste
October 28 – 31, 2013	Nord Pas de Calais/Belgium congress of mathematics, University of Valenciennes and Hainaut - Cambrésis (France), University of Mons (Belgium)
January 30 – February 1, 2013	QTNDE 2013, Qualitative Theory of Nonlinear Differential Equations, University of Trieste
May 30 – June 6, 2012	Spring School in Nonlinear Partial Differential Equations, Free University of Brussels (Belgium)
June 20 – 25, 2011	School on Stability and Bifurcation for Nonautonomous Differential Equations, International Mathematical Summer Center, Cetraro (Cosenza)
MEMBERSHIPS OF PROFESSIONAL ORGANISATIONS AND PARTICIPATION TO SCIENTIFIC PROJECTS	
2018	Participation to funded INdAM-GNAMPA project <i>Proprietà qualitative di alcuni problemi ai limiti</i> (P.I. A. Fonda, University of Trieste)
2017	Participation to funded INdAM-GNAMPA project <i>Equazioni fortemente nonlineari: esistenza, molteplicità, regolarità di soluzioni</i> (P.I. P. Omari, University of Trieste) Membership of AMASES, Association for Mathematics Applied to Economics and Social Sciences

2016	Participation to funded INdAM-GNAMPA project <i>Problemi differenziali non lineari: esistenza, molteplicità e proprietà qualitative delle soluzioni</i> (P.I. M. Garrione, Polytechnic University of Milan)
2016 – present	Membership of INdAM-GNAMPA, Istituto Nazionale per l'Alta Matematica <i>F. Severi-</i> Gruppo Nazionale per l'Analisi Matematica, la Probabilità e le loro Applicazioni
2012	Participation to funded INdAM-GNAMPA project <i>Problemi al contorno per equazioni differenziali non lineari</i> (P.I. F. Obersnel, University of Trieste)
2012 – 2014	Membership of INdAM-GNAMPA, Istituto Nazionale per l'Alta Matematica <i>F. Severi-</i> Gruppo Nazionale per l'Analisi Matematica, la Probabilità e le loro Applicazioni
ADDITIONAL ACADEMIC ROLES	
March 2017 – present	Delegate of Post-doc researchers, Department of Economics, Business, Mathematics and Statistics, University of Trieste
REFEREE ACTIVITY	
June 2017 – present	Referee activity for Monatshefte für Mathematik, Discrete and Continuous Dynamical Systems, Journal of the London Mathematical Society
ACADEMIC TEACHING ACTIVITY	
	Awarding of Ph.D. courses
March 14 – April 18, 2018	Nonlinear analysis applied to a capillarity-type model (tacet), Doctoral School in Earth Science, Fluid-Dynamics, and Mathematics. Interactions and Methods, University of Trieste
	Degree courses
2017 – 2018	Teaching Assistant of the English course <i>Mathematics</i> (35 hours), Bachelor degree in Eco- nomics, University of Trieste Tutor of the course <i>Matematica per l'Economia e la Statistica 1</i> (10 hours), Bachelor degree in Statistics, University of Trieste Teaching Assistant of the course <i>Matematica</i> (15 hours), Bachelor degree in Food Science and Technology, University of Udine
2016 – 2017	Teaching Assistant of the English course <i>Mathematics</i> : part of the introductory course (7 hours) and exercise classes (30 hours), Bachelor degree in Economics, University of Trieste Tutor of the course <i>Matematica per l'Economia e la Statistica 1</i> (10 hours), Bachelor degree in Statistics, University of Trieste Teaching Assistant of the course <i>Matematica</i> (15 hours), Bachelor degree in Food Science and Technology, University of Udine
2015 – 2016	Teaching Assistant of the English course <i>Mathematics</i> (30 hours), Bachelor degree in Eco- nomics, University of Trieste Tutor of the course <i>Matematica per l'Economia e la Statistica 1</i> (10 hours), Bachelor degree in Statistics, University of Trieste Teaching Assistant of the course <i>Matematica</i> (15 hours), Bachelor degree in Food Science and Technology, University of Udine
SCHOLASTIC TEACHING ACTIVITY	
September 14 – October 30, 2015	Teacher of <i>Matematica e Scienze</i> , scuola secondaria di primo grado G.F. da Tolmezzo, Istituto Comprensivo di Tolmezzo (Udine)
April 30 – June 30, 2015	Teacher of <i>Matematica e Scienze</i> , scuola secondaria di primo grado E. Fermi, Istituto Comprensivo IV, Udine
February 20 – March 20, 2015	Special needs teacher, scuola secondaria di primo grado G. Marchetti, Istituto Comprensivo di Pozzuolo del Friuli, Campoformido (Udine)

Italian: mother tongue

English: fluent

French: fluent