PERSONAL INFORMATION
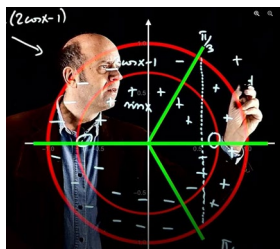
Carlo Mariconda

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Sex Male | Date of birth XXXXXX | Nationality Italian| F.C.

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WORK EXPERIENCE

2017-2021
2022 - present

Advisor of the University of Padova for e-learning and Innovative Teaching
Advisor of the University of Padova for digital education
▪ Counceling
E-learning

2018- present

Change Agent Unipd
E-learning

2016-2021

Lead Educator in Moocs
Platforms Eduopen and Futurelearn
▪ Mooc "Precalcolo" – Eduopen, 2016
▪ Mooc "Precalculus" – Futurelearn, 2017
▪ Mooc "Advanced precalculus" – Futurelearn, 2018
▪ Mooc "Matematica di base" – Federica weblearning & CISIA (140 000 students), 2025
▪ Mooc "Analisi Matematica in più variabili" – Federica weblearning, 2020
▪ Mooc "Combinatorics: Methods for counting" – Futurelearn, 2021
▪ Mooc:"Introduzione alle probabilità" – Futurelearn, 2024
E-learning, distance learning

2012-2023

Coordinator of the commission in New technologies for teaching
Dipartimento di Matematica, Università degli Studi di Padova

E-learning

1998 - present

Associate/Full (from 2022) Professor of Mathematical Analysis
Università degli Studi di Padova

▪ Research and Teaching several courses in Mathematical Analysis and Probabilities
Mathematics

1992-1998

Assistant Professor in Mathematical Analysis
Università degli Studi di Padova

▪ Research and Teaching
Mathematics

EDUCATION AND TRAINING

2017-2021   **Open Badges**

- 2017 - "Teaching4Learning", https://bestr.it/verify/EPYW6PTXRC
- 2018 – Lead Educator in Moocs. https://bestr.it/verify/9KSGIN8A9P
- 2019 - Change agent https://bestr.it/verify/D0MOFFS6A0
- 2020: "Design Learning Innovation" https://www.pok.polimi.it/certificates/1db95b8c0b5749ffbe1807c2c289a67e
- 2021- Theory and Crypthography", University of California San Diego. https://www.coursera.org/account/accomplishments/verify/FXES7TAVC7RD
- 2021: "More fun with prime numbers" University of Kyoto. https://courses.edx.org/certificates/efd1f4992b924c6d8f4cb2db27983b4b
- 2023 – Blended teaching, https://openbadges.bestr.it/public/assertions/oYzvFWUwSY-cAlOVKPIGFg
- 2023- Smart learning Design, POK Polimi https://www.pok.polimi.it/certificates/e5a107b977ba4efc8e5df5619dcec204
- 2024 – Teaching4Learning@Unipd Faculty Development Trainer https://openbadges.bestr.it/public/assertions/bgtX_REYR9qFIvkdnBCQow
- 2025 – Imparare con l'IA – POK Polimi https://app.myopenbadge.com/verify/Nf3HgYTX

1987-1992

Ph.D. in Functional Analysis

International School for Advanced Studies (I.S.A.S.-S.I.S.S.A.), Trieste, Italy

1982-1987   **Degree in Mathematics**

Università degli Studi di Padova, Italy

TEACHING ACTIVITY
1992- present   **University of Padova**

- Courses in mathematical Analysis, Calculus of Variations, Combinatorics, Probability, for the Schools of Natural Sciences and Engineering of the University of Padova (about 60 courses).
- Several Ph. D. courses in Evora (Portugal) and University of Padova (Mathematics)

- From 2021, teaching Precalculus in the online degree in techniques and methods in Psychological Sciences and blended course in Analysis and Probabilities (school of Engineering)

- From 2023: course in Cryptography (Master Course in Cybersecurity/Mathematics)

SCIENTIFIC ACTIVITIES

Research topics   Calculus of Variations, Control theory, Functional Analysis, Measure theory. My recent interests concern Lipschitz regularity for the basic problem of the calculus of variations, the Du Bois-Reymond equation, the avoidance of the Lavrentiev phenomenon in the one dimensional and multidimensional

scalar case.

Recent Talks and seminars	- September 2017: invited speaker at the congress "Control of State Constrained Dynamical Systems", Padova. - February 6-10, 2017: Invited speaker at the XXVII National Congress of Calculus of Variations, Levico Terme (Trento), Italy. 10-14 July 2017: invited speaker at SIAM annual meeting in Pittsburgh, USA 25-29 September 2017: invited speaker at the congress "Control of State Constrained Dynamical Systems", Padova. 5-9 July 2018: invited speaker at the AIMS Conference Series ion Dynamical systems and differential equations, Taipei (Taiwan) - November 30, 2018: Invited speaker at the "Workshop day on Mathematics in memory of Vladimir Goncharov", Evora (Portugal) - February 4-8, 2019: Invited speaker at the XXIX National Congress of Calculus of Variations, Levico Terme (Trento), Italy - February 2019, XXIX National Congress of Calculus of Variations, Levico Terme (Trento) - July 2019, ICIAM, Valencia (Spain) - July 15-19, 2019: Invited speaker at ICIAM, Valencia (Spain) - June 5-9, 2020: Invited speaker at the 13th AIMS International Conference on Dynamical Systems and Differential Equations will take place in Atlanta, GA, USA (suspended for COVID) - October 7, 2020: invited speaker at the University of Bologna (Invites Prof. Cupini) - June 11, 2021: seminar at University of Padova, invited by Prof. Franco Rampazzo - May 2022, Porto congress FGP Optimization - June 2023, Seminar at UBO, Brest - June 2024, Seminar at UBO, Brest
Conferences and workshops (organizer)	2006: member of the organizing commettee of the Congress "Variational and Differential Problems with constraints. Conference in honor of Arrigo Cellina on the occasion of his 65th birthday" – Venezia, September 18- 20; 2011: member of the organizing commettee of the Congress "Nonlinear differential equations and control: celebrating Arrigo Cellina's 70th birthday"– Milan, September 22-23; - Organization of several Ph. D. courses at the Scuola di Dottorato in Matematica of the University of Padova: P. Pedregal (Young measures), S. Solimini (2 courses: Mumford-Shah/ irrigation problems), F. Clarke (Calculus of variations and Optimal Control), M. Quincampoix. 2014: Organization of a course in calculus of variations at Scuola Galileiana in Padova, teachers: F. Clarke, B. Piccoli. 2022: Organizer of a minisymposium FRENCH GERMAN PORTUGUESE CONFERENCE ON OPTIMIZATION 2022
Visiting Professor	2015-2023: Visiting professor at the Ecole Normale Supérieure, Paris for a total of 3 months (invited by Prof. R. Cerf) 2015-2024: Several times visiting professor at the Department of mathematics at the University of Brest UBO for a total of 3 months (invited by Prof. P. Bettiol)

DEVELOPMENT OF NEW TOOLS FOR TEACHING & LEARNING

BoardOnAir™	2017-18: Development of the glass board system BoardOnAir that enables recording videos without the need of post-production. (EUIPO European Union Intellectual Property Office No 017651548)