Curriculum vitae

PERSONAL INFORMATION

Marco Redolfi

Università degli Studi di Modena e Reggio Emilia

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ORCID 0000-0003-4036-3247

Gender Male | Date of birth 20 April 1984 | Nationality Italian

WORK EXPERIENCE

August 2023 – Present — Associate professor
UNIMORE | Università degli Studi di Modena e Reggio Emilia, Modena, Italy

January 2023 – July 2023 — Researcher (RTD-A)
University of Trento, Italy

March 2021 – December 2022 — Scientific collaborator
University of Trento, Italy

February 2015 – January 2020 — Postdoctoral research fellow
University of Trento, Italy

January 2011 – June 2011 — Postgraduate research fellow
University of Trento, Italy

EDUCATION AND TRAINING

2011–2014 — Joint PhD in River Science
University of Trento, Italy. Queen Mary University of London, UK

2006–2010 — Master degree in Environmental Engineering
University of Trento, Italy. Mark: 110/110

2003-2006 — Batchelor degree in Environmental Engineering
University of Trento, Italy. Mark: 110/110, Cum Laude

1998–2003 — Technical school of electronics and telecommunications
Istituto tecnico G. Marconi, Rovereto, Italy. Mark: 100/100

RESEARCH INTERESTS

River hydrodynamics and morphodynamics. Sedimentary patterns. Fluvial bifurcations. Sediment transport in gravel-bed rivers. Multidisciplinary approach based on field data analysis, laboratory-scale physical models and mathematical analysis

FELLOWSHIPS

2011–2014

SMART Erasmus Mundus Joint Doctorate fellowship

University of Trento, Italy. Queen Mary University of London, UK

HONORS

2019

Starting grant for young researchers

Financial support given on a competitive basis by University of Trento to encourage researchers to participate in competitive research calls

2019

Invited research visit

St. Anthony Falls Laboratory, University of Minnesota, USA

APPOINTMENTS

Membership in scientific societies

Member of the American Geophysical Union

Member of the European Geosciences Union

Member of the Italian Group of Hydraulics

PERSONAL SKILLS

Mother tongue: Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills: Presenter at international scientifing meetings and public dissemination events

Organisational / managerial skills

- Member of the Local Organizing Committee of the River Coastal and Estuarine Morphodynamics 2017, Trento-Padova, Italy. Editor of the book of abstracts (Eds. Stefano Lanzoni, Marco Redolfi and Guido Zolezzi, ISBN: 978-88-8443-752-5)
- Organizer of the Weekly Seminar of the group of Hydraulics and Morphodynamics (GIAMT), Department of Civil, Environmental and Mechanical Engineering, University of Trento

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Driving licence: B

ADDITIONAL INFORMATION

Citation Metrics: Articles in Publication List in the Last 10 Years (Scopus): 19. Sum of the Times Cited (Scopus): 215. H-index (Scopus): 9

SELECTED PUBLICATIONS

1 Redolfi, M. (2023). Defining the length parameter in river bifurcation models: a theoretical approach. Earth Surface Processes and Landforms, 48(11), 2121–2132. doi:10.1002/esp.5673

2 Redolfi, M., Carlin, M., and Tubino, M. (2023). The impact of climate change on river alternate bars. Geophysical Research Letters, 50, e2022GL102072. doi:10.1029/2022GL102072

3 Ragno, N., Redolfi, M., and Tubino, M. (2022). Quasi-universal length scale of river anabranches. Geophysical Research Letters, 49, e2022GL099928. doi:10.1029/2022GL099928

4 Redolfi, M. Free alternate bars in rivers: key physical mechanisms and simple formation criterion. Water Resources Research 57(12), e2021WR030617, doi:10.1029/2021WR030617

5 Redolfi, M., Musa, M., and Guala, M. (2021). On steady alternate bars forced by a localized asymmetric drag distribution in erodible channels. Journal of Fluid Mechanics, 916, A13. doi:10.1017/jfm.2021.122

6 Redolfi, M., Zolezzi, G., and Tubino, M. (2019). Free and forced morphodynamics of river bifurcations. Earth Surface Processes and Landforms, 44, 973– 987. doi:10.1002/esp.4561

7 Redolfi, M., Bertoldi, W., Tubino, M., and Welber, M. (2018). Bed load variability and morphology of gravel bed rivers subject to unsteady flow: A laboratory investigation. Water Resources Research, 54, 842–862. doi:10.1002/2017WR021143

8 Redolfi, M., Guidorizzi, L., Tubino, M., and Bertoldi, W. (2017). Capturing the spatiotemporal variability of bedload transport: A time-lapse imagery technique. Earth Surface Processes and Landforms, 42, 1140– 1147. doi:10.1002/esp.4126

9 Redolfi, M., Tubino, M., Bertoldi, W., and Brasington, J. (2016). Analysis of reach-scale elevation distribution in braided rivers: Definition of a new morphologic indicator and estimation of mean quantities. Water Resources Research, 52, 5951– 5970, doi:10.1002/2015WR017918

10 Redolfi, M., Zolezzi, G., and Tubino, M. (2016). Free instability of channel bifurcations and morphodynamic influence. Journal of Fluid Mechanics, 799, 476–504. doi:10.1017/jfm.2016.389

STATEMENT AND SIGNATURE

Statement According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Signature