

Marta Tuninetti

+39 340 8509416
✉ marta.tuninetti@polito.it



Current positions

- 2018-present **Research Fellow**, Politecnico di Torino (Italy).
- 2017-present **Junior Lecturer**, MSc course on *Hydrology* in Civil Engineering (in English), Politecnico di Torino (Italy).

Education and previous positions

- 2018 **PhD**, Environmental Engineering, Politecnico di Torino (Italy),
Research project: *Local and global assessments of water footprint for sustainable agriculture*.
Supervisors: Proff. F. Laio and L. Ridolfi.
- Oct-Dec 2017 **PhD visiting student**, Institute for Sustainable Resources, UCL, London (UK),
Research project: *Development of a sustainability indicator to deal with water depletion*.
Supervisors: C. Dalin, S. Tamea.
- 2014 **MSc in Environmental Engineering**, Politecnico di Torino (Italy),
Majors: hydrology, hydraulics, tunnelling.
- Oct-Dec 2013 **Visiting student**, University of Virginia, Virginia (USA),
Research project: *Development of a spatially-distributed model to evaluate crop water footprint at global scale*.
Supervisor: Prof. P. D'Odorico.
- 2011 **BSc in Environmental Engineering**, Politecnico di Torino (Italy).

Fellowships and awards

- Nov 2017 **Research grant**, founded by ERC-CWASI project No 647473, Politecnico di Torino (Italy).
- 2014–2017 **PhD fellowship**, Politecnico di Torino (Italy).
- Apr – Nov 2014 **Post-graduate research grant**, Politecnico di Torino (Italy).
- 2013 **MSc thesis fellowship for the University of Virginia**, Politecnico di Torino (Italy).
- April – July **Internship**, ITHACA Research Centre, Torino (Italy), www.ithacaweb.org.
- 2012 Project: Restoration of Vernazza (Genova, Italy) after flood: on-site topological survey.
- 2007 **Award**, *Diventiamo cittadini europei*, Consulta regionale europea (EU).

Organization of scientific meetings

- 2016 **First Water Symposium**, www.waterinfood.it/simposio, Politecnico di Torino (Italy).
- 2017 **PhD days**, co-organized with the Italian Group of Hydraulic, www.gii-idraulica.net/sezioni-tematiche/phd-days.

Skills and interests

| | |
|-------------|---|
| Programming | Excellent mastery of Matlab, L ^A T _E X, Tableau |
| Software | Strong skills in GIS, ENVI, QGis |
| Office | Excellent command of Word, Excel, Power Point |
| English | Fluent |

Cambridge English: First (FCE)

Publications

- Tamea, S., **Tuninetti, M.**, Laio, F., and Ridolfi, L. (2014). "Variabilità e incertezza dell'impronta idrica del grano", pp.524-525. In *Idraulica e Costruzioni Idrauliche* - ISBN:9788890456183 vol. 1
- **Tuninetti, M.**, Tamea, S., D'Odorico, P., Laio, F., and Ridolfi, L. (2015). "Global sensitivity of high-resolution estimates of crop water footprint" *Water Resources Research*, 51(10), 8257-8272 <http://dx.doi.org/10.1002/2015WR017148>
- **Tuninetti, M.**, Tamea, S., Laio, F., and Ridolfi, L. (2016). "To trade or not to trade: link prediction in the virtual water network" *Advances in Water Resources* <http://dx.doi.org/10.1016/j.advwatres.2016.08.013>
- **Tuninetti, M.**, Tamea, S., Laio, F., and Ridolfi, L. (2017). "A Fast-Track approach to deal with the temporal dimension of crop water footprint" *Environmental Research Letters* <http://iopscience.iop.org/article/10.1088/1748-9326/aa6b09/meta>
- Abdelkader, A., Elshorbagy, A., **Tuninetti, M.**, Laio, F., Ridolfi, L., Fahmy, H., Hoekstra, A. Y. (2018). "National water, food, and trade modeling framework: The case of Egypt". *Science of the total environment*, <https://doi.org/10.1016/j.scitotenv.2018.05.197>
- **Tuninetti, M.**, Tamea, S., Dalin, C. (2018). "Water debt indicator reveals where agricultural water use exceeds sustainable levels". *Water Resources Research*, Under review

Conferences

- XXXIV National hydraulics meeting (IDRA), September 8-10, 2014 – *Variabilità e incertezza dell'impronta idrica del grano* – Authors: S. Tamea, **M. Tuninetti**, F. Laio, L. Ridolfi.
- European Geosciences Union General Assembly (EGU), April 12-17, 2015 – *Spatial heterogeneity and sensitivity analysis of crop virtual water content at a global scale* – Authors: **M. Tuninetti**, S. Tamea, P. D'Odorico, F. Laio, L. Ridolfi.
- European Geosciences Union General Assembly (EGU), April 17-22, 2016 – *Link prediction in the network of global virtual water trade* – Authors: **M. Tuninetti**, S. Tamea, F. Laio, L. Ridolfi.
- European Geosciences Union General Assembly (EGU), April 17-22, 2016 – *Temporal variability of green and blue water footprint worldwide* – Authors: S. Tamea, M. Lomurno, **M. Tuninetti**, F. Laio, L. Ridolfi.
- International Association of Hydrological Sciences (IAHS) April 07-17, 2017 – *How much is global crop production over-exploiting different water resources?* – Authors: **M. Tuninetti**, S. Tamea, C. Dalin.
- International Association of Hydrological Sciences (IAHS) April 07-17, 2017 – *Assessment of the time-dependent crop water footprint* – Authors: **M. Tuninetti**, S. Tamea, F. Laio, L. Ridolfi.
- American Geophysical Union Fall Meeting (AGU), December 11-15, 2017 – *Sustainability of agricultural water use worldwide* – Authors: **M. Tuninetti**, S. Tamea, C. Dalin.
- American Geophysical Union Fall Meeting (AGU), December 11-15, 2017 – *National water resource management as a global problem: The example of Egypt* – Authors: A. Elshorbagy, A. Abdelkader, **M. Tuninetti**, F. Laio, L. Ridolfi, and H. Fahmy.
- European Geosciences Union General Assembly (EGU), April 8-13, 2018 – *Trends (and no-trends) in crop water footprint* – Authors: **M. Tuninetti**, S. Tamea, F. Laio, L. Ridolfi.
- European Geosciences Union General Assembly (EGU), April 8-13, 2018 – *Sustainability of agricultural water use worldwide: the concept of Water Debt* – Authors: **M. Tuninetti**, S. Tamea, C. Dalin.
- European Geosciences Union General Assembly (EGU), April 8-13, 2018 – *The future virtual-water trade network under possible scenarios of food production and consumption* – Authors: **M. Tuninetti**, F. Laio, L. Ridolfi.

Reviewer for scholarly journals

Reviewer of 15 scientific articles in the period 2016-2018 for the following journals: *Water Resources Research*, *Advances in Water Resources*, *Science of the Total Environment*, *Water*, *Reviews of Geophysics*, *Ecology and Society*, *Sustainability* the *Journal of Record*.

Soft skills

Strong skills in team working and leading, excellent attitude at problem solving, high capability to adapt to multicultural environments and to deal with interpersonal relations. Strong sense of organization. Ease to take on both oral and written presentations. Playing piano professionally, amateur runner. Passionate of reading and travelling.

Torino, July 12, 2018

Marta Tuninetti