Saïd Qasmi

Curriculum vitae

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Research interests

My research focuses on the global and regional variability of the climate system, and its response to external anthropogenic forcings on multi-decadal timescales. In particular, I study the physical processes that influence future changes in variability over the North Atlantic, Europe and the Arctic. I also develop statistical methods to quantify the climate uncertainty within model projections.

Education

2015 – 2018 **Ph.D**, *Université Paul Sabatier*, Toulouse, France.
- Thesis: Sensitivity of the European climate to the North Atlantic multidecadal variability

2014 – 2015 **Master degree**, *Université Paul Sabatier*, Toulouse, France.
- Ocean, Atmosphere and Environment

2012 – 2015 **Engineering degree**, *Institut National Polytechnique: École Nationale de la Météorologie*, Toulouse, France.
- Meteorology, Climatology, Statistics

Research Experience

01/2019 –
Today **Postdoctoral Researcher**, *CNRM*, Toulouse, France.
- Estimation and reduction of uncertainties in regional and global climate projections.
- Bayesian statistics
- Coordination with academic European partners

10/2017 –
12/2017 **Visiting Researcher**, *University of Reading*, Reading, UK.
Department of Meteorology

11/2015 –
12/2018 **Predoctoral Researcher**, *Cerfacs*, Toulouse, France.
- Estimation of the mechanisms between the North Atlantic ocean variability and the European climate at multi-decadal timescale
- Evaluation of global climate model outputs
- Design of numerical experiments

Teaching

2020 – Today **Climate system**, *Toulouse Business School*, Toulouse, France.
Course (15h) for undergraduate (L3) and graduate (M1) students.

2019 – Today **Climate variability**, *Ecole Nationale de la Météorologie*, Toulouse, France.
Tutorial (4h) for graduate students (M1).

2016 – 2019 **Statistics**, *Ecole Nationale de la Météorologie*, Toulouse, France.
Course (22h) for undergraduate students (L1).

Languages and Tools

Languages

French	Native
Arabic	Native
English	Fluent

Tools

Programming	R, Python, Matlab, NCL, Fortran
Visualization	Plotly, Shiny

Peer-reviewed Publications

2021 Qasmi, Saïd, Emilia Sanchez-Gomez, et al. (2021). "Modulation of the Occurrence of Heatwaves over the Euro-Mediterranean Region by the Intensity of the Atlantic Multidecadal Variability". In: *Journal of Climate* 34.3, pp. 1099–1114. ISSN: 0894-8755, 1520-0442. DOI: 10.1175/JCLI-D-19-0982.1.

Ribes, Aurélien, Qasmi, Saïd, and Nathan P. Gillett (2021). "Making climate projections conditional on historical observations". In: *Science Advances* 7.4, eabc0671. ISSN: 2375-2548. DOI: 10.1126/sciadv.abc0671.

Ruggieri, Paolo et al. (2021). "Atlantic Multidecadal Variability and North Atlantic Jet: A Multimodel View from the Decadal Climate Prediction Project". In: *Journal of Climate* 34.1, pp. 347–360. ISSN: 0894-8755, 1520-0442. DOI: 10.1175/JCLI-D-19-0981.1.

Ruprich-Robert, Yohan et al. (2021). "Impacts of Atlantic multidecadal variability on the tropical Pacific: a multi-model study". In: *npj Climate and Atmospheric Science* 4.1, p. 33. ISSN: 2397-3722. DOI: 10.1038/s41612-021-00188-5.

2020 Brunner, Lukas et al. (2020). "Comparing Methods to Constrain Future European Climate Projections Using a Consistent Framework". In: *Journal of Climate* 33.20, pp. 8671–8692. ISSN: 0894-8755, 1520-0442. DOI: 10.1175/JCLI-D-19-0953.1.

Qasmi, Saïd, Christophe Cassou, and Julien Boé (2020). "Teleconnection Processes Linking the Intensity of the Atlantic Multidecadal Variability to the Climate Impacts over Europe in Boreal Winter". In: *Journal of Climate* 33.7, pp. 2681–2700. ISSN: 0894-8755, 1520-0442. DOI: 10.1175/JCLI-D-19-0428.1.

2017 Qasmi, Saïd, Christophe Cassou, and Julien Boé (2017). "Teleconnection Between Atlantic Multidecadal Variability and European Temperature: Diversity and Evaluation of the Coupled Model Intercomparison Project Phase 5 Models". In: *Geophysical Research Letters* 44.21, pp. 11, 140–11, 149. ISSN: 1944-8007. DOI: 10.1002/2017GL074886.