

NSF BIOGRAPHICAL SKETCH

NAME: Monteleoni, Claire

ORCID: 0000-0002-9488-0517

POSITION TITLE & INSTITUTION: Associate Professor and Associate Chair for Inclusive Excellence, University of Colorado Boulder

(a) PROFESSIONAL PREPARATION

| INSTITUTION | LOCATION | MAJOR / AREA OF STUDY | DEGREE (if applicable) | YEAR YYYY |
|--|------------------|---|---------------------------|--------------|
| Harvard University | Cambridge, MA | Earth and Planetary Sciences | AB | 1998 |
| Massachusetts Institute of Technology | Cambridge, MA | Computer Science | MS | 2003 |
| Massachusetts Institute of Technology | Cambridge, MA | Computer Science | PHD | 2006 |
| University of California San Diego | La Jolla, CA | Postdoctoral Scholar in Computer Science | N/A | 2008 |

(b) APPOINTMENTS

2018 - present Associate Professor and Associate Chair for Inclusive Excellence, University of Colorado Boulder, Department of Computer Science, Boulder, CO

2017 - 2018 Jean d'Alembert Fellow, University of Paris-Saclay, Paris

2017 - 2018 Associate Professor, The George Washington University, Washington, DC

2011 - 2017 Assistant Professor, The George Washington University, Washington, DC

2009 - 2011 Adjunct Assistant Professor, Columbia University, New York, NY

2008 - 2011 Associate Research Scientist, Columbia University, New York, NY

2008 - 2008 Lecturer, University of California San Diego, La Jolla, CA

2006 - 2008 Postdoctoral Scholar, University of California San Diego, La Jolla, CA

2001 - 2006 Research Assistant, Massachusetts Institute of Technology, Cambridge, MA

2004 - 2004 Summer Intern, Toyota Technological Institute at Chicago, Chicago, IL

2004 - 2004 Teaching Assistant, Massachusetts Institute of Technology, Cambridge, MA

1999 - 2001 Software Engineer, Peakstone Corporation, Sunnyvale, CA

1999 - 1999 Research Associate, Stanford University, Stanford, CA

1998 - 1999 Computer Scientist, SRI International, Menlo Park, CA

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Giffard-Roisin S, Yang M, Charpiat G, Kumler Bonfanti C, Kégl B, Monteleoni C. Tropical Cyclone Track Forecasting Using Fused Deep Learning From Aligned Reanalysis Data. *Frontiers in Big Data*. 2020; 3:-. Available from: <https://www.frontiersin.org/article/10.3389/fdata.2020.00001/full> DOI: 10.3389/fdata.2020.00001
2. Cesa-Bianchi Nicol'o, Cesari Tommaso, Monteleoni Claire. Cooperative Online Learning: Keeping your Neighbors Updated. *Proceedings of the 31st International Conference on Algorithmic Learning*

Theory (ALT). 2020; 117:234--250.

3. Brian Groenke, Luke Madaus and Claire Monteleoni. Climalign: Unsupervised statistical down-scaling of climate variables via normalizing flows. Proceedings of the 10th International Conference on Climate Informatics (CI). 2020;
4. Saumya Sinha, Sophie Giffard-Roisin, Fatima Karbou, Michael Dechartres, Anna Karas, Nicolas Eckert, Cécile Coléou and Claire Monteleoni. Variational autoencoder anomaly-detection of avalanche deposits in satellite SAR imagery. Proceedings of the 10th International Conference on Climate Informatics (CI). 2020;
5. Moumita Saha, Ravi S. Nanjundiah, and Claire Monteleoni. CNN-Based Forecasting of Intraseasonal Mean and Active/Break Spells for Indian Summer Monsoon. Proceedings of the 10th International Conference on Climate Informatics (CI). 2020;

Other Significant Products, Whether or Not Related to the Proposed Project

1. Cheng Tang, Claire Monteleoni. Convergence rate of stochastic k-means. Proceedings of the 20th International Conference on Artificial Intelligence and Statistics (AISTATS). 2017; 54:1495--1503. Available from: <http://proceedings.mlr.press/v54/tang17b.html>
2. Cheng Tang, Claire Monteleoni. On Lloyd's Algorithm: New Theoretical Insights for Clustering in Practice. Proceedings of the 19th International Conference on Artificial Intelligence and Statistics (AISTATS). 2016; 51:1280--1289.
3. Anna Choromanska, Claire Monteleoni. Online Clustering with Experts. Proceedings of the 15th International Conference on Artificial Intelligence and Statistics (AISTATS). 2012; 22:227--235. Available from: <http://proceedings.mlr.press/v22/choromanska12.html>
4. Mohan Mahesh, Monteleoni Claire. Beyond the Nyström Approximation: Speeding up Spectral Clustering using Uniform Sampling and Weighted Kernel k-means. Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI). 2017; :2494--2500.
5. Monteleoni Claire, Jaakkola Tommi. Online Learning of Non-stationary Sequences. Advances in Neural Information Processing Systems (NeurIPS) 16. 2003; 16:1093--1100.

(d) SYNERGISTIC ACTIVITIES

1. Founder, The International Conference on Climate Informatics. This annual research conference, which includes a hackathon, turned 10 in 2020. Attendees in climate science and data science, from over 20 countries and 30 U.S. states.
2. Founding Editor-in-Chief, Environmental Data Science Journal, Cambridge University Press, 2020-
3. Co-Chair, Earth Day, KDD 2020.
4. Senior Advisory Council, Workshop for Women in Machine Learning, 2016-.
5. Invited Tutorial, "Climate Change: Challenges for Machine Learning." NeurIPS 2014.