Thomas HOSSLER
Application for full time position starting Fall 2017
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Summary

Stanford University, Ecole Normale Superieure and Université Pierre et Marie Curie educated with strong background in Statistics, Computer Science and Earth Sciences. I am taking a leave of absence during the PhD program, starting September 2017 after graduating with a master's degree. I am looking for a full-time position in Data Science in Fall 2017.

Education

2015 – present	**STANFORD UNIVERSITY – PHD** Geological and Environmental Sciences. Decision making for groundwater resources using Machine Learnin. I am part of Jef Caers' group on uncertainty quantification and part of the Stanford Center for Reservoir Forecasting. Conference (poster): Hossler T, Caers J, Lakshmi V, Harris J. (2016) Sensitivities in a game theoretic approach to analyze allocation of water resources in the Nagobo basin, Ghana. *American Geophysical Union*	**Stanford, USA**
2012 – 2013 2014 - 2015	**ECOLE NORMALE SUPERIEURE** and **UNIVERSITE PIERRE ET MARIE CURIE - MASTER OF SCIENCE** Geophysics, Atmospheric sciences, Hydrology and Statistics. Graduated with honors.	**Paris, France**
2011 – 2012	**ECOLE NATIONALE SUPERIEURE DE LYON (ENSL) – BACHELOR OF SCIENCE** Major in Geological Sciences, minor in Geophysics. Ranked 48th nationwide at the admission exam.	**Lyon, France**

Professional experience

02/2015 to 07/2015	**ECOLE NORMALE SUPÉRIEURE - RESEARCH ASSISTANT** Developed a semi-empirical model of cavity stability in karstic systems using numerical models, fieldwork and laboratory measurements. Fieldwork in Quintana Roo, Mexico.	**Paris, France**
02/2014 to 05/2014	**STANFORD UNIVERSITY - VISITING RESEARCHER** Developed an image quilting algorithm that generate textures to represent subsurface heterogeneity for flow simulation.	**Stanford, USA**
09/2013 to 01/2014	**NATIONAL SEISMOLOGICAL CENTER – RESEARCH INTERN** Studied the activity of a fault system using aerial and field measurements. Publication: Hossler, T., Bollinger, L., Sapkota, S. N., Lavé, J., Gupta, R. M., & Kandel, T. P. (2016). Surface ruptures of large Himalayan earthquakes in western Nepal: evidence along a reactivated strand of the Main Boundary Thrust. *Earth and Planetary Science Letters*, *434*, 187-196.	**Kathmandu, Nepal**
03/2013 to 08/2013	**VISITING RESEARCHER CALTECH** Developed an eddy tracking algorithm using satellite data (sea surface height).	**Pasadena, USA**

Skills & Languages

Proficient in: Matlab, Python, R, Modflow, SGEMS, OptumG2, Illustrator, Latex
Familiar with: C++, HTML, CSS, Javascript, SQL, GIS, Julia
French: native language, **English:** fluent, **German:** proficient

Selected courses

Convex optimization, Geostatistics, Machine Learning, Decision Making under uncertainty, Statistical Learning, Algorithm design, Advanced numerical methods, Game Theory, Rock mechanics, Fluid mechanics, Hydrogeology