**Thomas HOSSLER**
Application for full time position starting Fall 2017
thossler@stanford.edu, +1 650-660-8189
personal page: http://web.stanford.edu/~thossler/

## 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**<br>Geological and Environmental Sciences. Decision making for groundwater resources using Machine Learning. I am part of Jef Caers' group on uncertainty quantification and part of the Stanford Center for Reservoir Forecasting.<br>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<br>2014 - 2015 | **ECOLE NORMALE SUPERIEURE** and **UNIVERSITE PIERRE ET MARIE CURIE - MASTER OF SCIENCE**<br>Geophysics, Atmospheric sciences, Hydrology and Statistics. Graduated with honors. | **Paris, France** |
| 2011 – 2012 | **ECOLE NATIONALE SUPERIEURE DE LYON (ENSL) – BACHELOR OF SCIENCE**<br>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**<br>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**<br>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**<br>Studied the activity of a fault system using aerial and field measurements.<br>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**<br>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