Kurama OKUBO

Institut de Physique du Globe de Paris Tectonique et mécanique de la lithosphère, 1 Rue Jussieu, 75005 Paris, France

Currently working at École Normale Supérieure Laboratoire de Géologie, 24 rue Lhomond, 75005 Paris, France

EDUCATION

| 2015/10- | Doctoral candidate* | Sciences de la Terre et de l'Environnement et Physique de l'Univers Institut de Physique du Globe de Paris, France |
|----------|---------------------|---|
| 2015/03 | M. E. | Civil and Earth Resources Engineering Kyoto University, Japan |
| 2014/06 | M. S. | Earth Sciences, Environments and Planets Institut de Physique du Globe de Paris, France |
| 2013/03 | B. E. | Global Engineering Kyoto University, Japan |

*Advisors: Dr. Harsha S. Bhat & Dr. Yann Klinger

RESEARCH INTEREST

Earthquake source physics.

Doctoral dissertation: Earthquake ruptures on complex fault systems and complex media.

GRANTS

2015.10 - 2018.09 **Ph.D. Funding**

Contrats doctoraux Université Sorbonne Paris Cité 2015 Volant International

AWARDS

[1] 2018.04: **EGU Outstanding Student Poster and PICO (OSPP) Awards**: Okubo. K., Bhat, H. S., Lei, Z., Knight, E.E., Rougier, E. and Klinger, Y. *Overall energy budget of earthquake rupture with dynamically generated off-fault crack network*, EGU General Assembly Conference (Vienna, Austria)

REFEREED PUBLICATIONS, PAPERS IN REVIEW & IN PREPARATION

[1] 2018: Klinger, Y., Okubo, K., Vallage, A., Champenois, J., Delorme, A., Rougier, E., Lei, Z., Knight, E. E., Munjiza, A., Baize, S., Langridge, R. & Bhat, H. S. (2018), *Earthquake damage patterns resolve complex rupture processes*, *Geophys. Res. Lett.*

PRESENTATIONS

▶ Oral presentations

- [1] 2017. 12: Okubo, K., Bhat, H. S., Rougier, E., Lei, Z., Earl, K. E. & Klinger, Y. *Dynamic fracture network around faults: implications for earthquake ruptures, ground motion and energy budget*, **AGU Fall Meeting** (New Orleans, USA).
- [2] 2017. 08: Okubo, K., Bhat, H. S., Klinger, Y. & Rougier, E. *Modeling dynamic earthquake rupture with coseismic off-fault damage*, **IAG-IASPEI Symposia** (Kobe, Japan).
- [3] 2017. 07: Okubo, K., Bhat, H. S., Klinger, Y. & Rougier, E. Earthquake rupture modelling on complex fault systems and complex media, 6th International Conference on Coupled THMC Processes in Geosystems (Paris, France).

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[4] 2017. 04: Okubo, K., Bhat, H. S., Klinger, Y. & Rougier, E. *Modelling earthquake ruptures with dynamic off-fault damage*, **EGU General Assembly Conference** (Vienna, Austria).

▶ Poster presentations

- [5] 2018. 07: Okubo, K., Bhat, H. S., Rougier, E. & Klinger, Y. The role of off-fault damage in rupture dynamics, radiation and overall energy budget, INTERNATIONAL SCHOOL OF PHYSICS "ENRICO FERMI" "Mechanics of Earthquake Faulting" (Varenna, Italy).
- [6] 2018. 06: Okubo, K., Bhat, H. S., Rougier, E. & Klinger, Y. Off-fault fracture network induced by dynamic earthquake rupture, 50 Years of Plate Tectonics: Then, Now, and Beyond (Collège de France, Grand Amphithéâtre, Paris, France).
- [7] 2018. 04: Okubo, K., Bhat, H. S., Klinger, Y. & Rougier, E. Overall energy budget of earthquake rupture with dynamically generated off-fault crack network, EGU General Assembly Conference (Vienna, Austria).
- [8] 2018. 04: Okubo, K., Bhat, H. S., Rougier, E., Vallage, A., Champenois, J. & Klinger, Y. *Distributed deformation field due to coseismic off-fault damage of Mw 7.8 Kaikoura earthquake*, **EGU General Assembly Conference** (Vienna, Austria).

▶ Seminars

- [1] 2017. 10: Okubo, K., Bhat, H. S., Rougier, E. & Klinger, Y. Off-fault damage induced by dynamic earth-quake rupture: Implications for rupture process, radiation and energy budget., Los Alamos National Laboratory (NM, USA).
- [2] 2017. 08: Okubo, K., Bhat, H. S., Rougier, E. & Klinger, Y. Evolution of secondary crack network around faults induced by dynamic earthquake rupture, National Research Institute for Earth Science and Disaster Resilience (Tsukuba, Japan).
- [3] 2017. 07: Okubo, K., Bhat, H. S., Rougier, E. & Klinger, Y. Off-fault fracture network induced by dynamic earthquake ruptures, UMR Géoazur (Nice, France).
- [4] 2016. 11: Okubo, K., Bhat, H. S., Rougier, E. & Klinger, Y. Earthquake rupture modeling on complex fault systems and complex media, Los Alamos National Laboratory (NM, USA).

COMPUTER SKILLS

Languages & Software: C/C++, Fortran90/95, Python, Matlab, HTML, php, SQL, Cubit (Trelis).

LANGUAGES

English (Fluently), French (Basic), Japanese (Native).

Last Modified Tuesday 10th July, 2018

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