



**Maxime Mouyen** Postdoctoral fellow  
(2013-01-08 ~ 2015-12-01)

Institute of Earth Sciences, Academia Sinica  
128, Sec. 2, Academia Road, Nangang, Taipei  
11529, Taiwan  
TEL: +886-2-2783-9910  
FAX: +886-2-2783-9871

Research interest: geodesy, mass transfers in  
The subsurface, Earth's crust deformation and  
Stress field, hydro-geophysics, ocean and  
atmosphere loading on the crust, data analysis:  
GPS, gravimeters, strainmeter.

#### [ Education ]

- 2011: PhD degree in Geophysics, University of Strasbourg, France.
- 2007: Master degree in Geophysics, Ecole et Observatoire des Sciences de la Terre, Strasbourg, France.
- 2006: Master degree in Geology, Ecole Nationale Supérieure de Géologie, Nancy, France.

#### [ Experience ]

- 2013-2015: Postdoc at Academia Sinica, Institute of Earth Sciences, Taipei, Taiwan.
- 2012: Postdoc at National Chiao-Tung University, Civil Engineering Department, Hsinchu, Taiwan.
- 2008-2011: Teacher assistant (courses: near-surface geophysics, physical geodesy, spatial geodesy, physics of the Earth) at University of Strasbourg, France.

#### [ Journals publications ]

- 2015, Shih H.-C., Hwang C., Barriot J.-P., **Mouyen M.**, Corrêa P., Lequeux D., Sichoix L., [High-resolution gravity and geoid models in Tahiti obtained from new airborne and land gravity observations: data fusion by spectral combination](#), Earth, Planets and Space, 67:124. doi:10.1186/s40623-015-0297-9

- 2014, **Mouyen M.**, Simoes M., Mouthereau F., Masson F., Hwang C., Cheng C.-C., [Investigating possible gravity change rates expected from long-term deep crustal processes in Taiwan](#), *Geophys. J. Int.*, 198 (1): 187-197. doi: 10.1093/gji/ggu133
- 2013, Pfeffer J., Champollion C., Favreau G., Cappelaere B., Hinderer J., Boucher M., Nazoumou Y., Oï M., **Mouyen M.**, Henri C., Le Moigne N., Deroussi S., Demarty J., Boulain N., Benarrosh N., Robert O., [Evaluating surface and subsurface water storage variations at small time and space scales from relative gravity measurements in semiarid Niger](#), *Water Resour. Res.*, 49, 3276 – 3291, doi:10.1002/wrcr.20235.
- 2013, **Mouyen M.**, Masson F., Hwang C., Cheng C.-C., Le Moigne N., Lee C.-W., Kao R., Hsieh W.-C., [Erosion effects assessed by repeated gravity measurements in southern Taiwan](#), *Geophys. J. Int.* 192 (1), 113-136. doi: 10.1093/gji/ggs019
- 2012, Masson F., Viville D., Pierret M.-C., **Mouyen M.**, Chabaux F., [Time-lapse microgravity study of the Strengbach catchment \(Vosges mountains, France\)](#), *Comptes Rendus Géosciences* 344 (6-7), 357-365. doi:10.1016/j.crte.2012.06.001.
- 2012, Masson F., **Mouyen M.**, Hwang C., Wu Y.-M., Ponton F., Lehujeur M., Dorbath C., [Lithospheric structure of Taiwan from gravity modelling and sequential inversion of seismological and gravity data](#), *Tectonophysics* 518, 3-9. doi:10.1016/j.tecto.2012.04.012.
- 2010, **Mouyen M.**, Cattin R. and Masson F., [Seismic cycle stress change in western Taiwan over the last 270 years](#), *Geophys. Res. Lett.*, 37, L03306. doi:10.1029/2009GL042292.
- 2009, **Mouyen M.**, Masson F., Hwang C., Cheng C.-C., Cattin R., Lee C.-W. , Le Moigne N., Hinderer J., Malavieille J., Bayer R., Luck B., [Expected temporal Absolute Gravity change across the Taiwanese Orogen, a modeling approach](#), *J. Geodyn.* 48 (3-5), 284-291. doi:10.1016/j.jog.2009.09.004.

#### [ Conferences publications ]

- 2014, **Mouyen M.**, Yuan L., Mémin A., Chao B.F., Study of Typhoon Morakot Loading Signal in Taiwan GPS Time Series, American Geophysical Union Fall meeting, San Francisco, CA, USA.
- 2013, Shih H.-C., **Mouyen M.**, Barriot J.-P., Hwang C., Lequeux D., Sichoix L., Geoid model of Tahiti-Moorea oceanic volcanic islands, American Geophysical Union Fall meeting, San Francisco, CA, USA.
- 2012, **Mouyen M.**, Hwang C., Investigation of the role of tides and ocean loading in the seismicity of Taiwan, 3rd International Workshop on Multi-observations and interpretations of Tibet, Xinjiang and Siberia (TibXS) (IWGS) Chengdu, Sichuan, China.
- 2012, **Mouyen M.**, Masson F. , Hwang C., Cheng C.-C., Le Moigne N., Lee C.-W., Kao R., Hsieh W.-C., Effect of landslides and debris flow deposits in gravity

time series, American Geophysical Union Fall meeting, San Francisco, CA, USA (invited).

- 2012, **Mouyen M.**, Hwang C., Cheng C.-C., Investigation of the role of tides and ocean loading in the Taiwan's seismicity, Asia Oceania Geosciences Society meeting, Singapore.
- 2011, **Mouyen M.**, Masson F., Hwang C., Cheng C., Le Moigne N., Lee C., Kao R., Hsieh N, Luck, B. Contribution of gravimetry to the Taiwanese orogeny study, AGU Meeting, San Francisco, CA, USA.
- 2010, **Mouyen M.**, Masson F., Hwang C., Cheng C., Le Moigne N., Lee C., Kao R., Hsieh N. Absolute gravity measurements in the Taiwan orogen, International Geoscience Programme (IGCP 565) Workshop 3: Separating Hydrological and Tectonic Signals in Geodetic Observations Reno, NV, USA (invited).
- 2010, **Mouyen M.**, Masson F., Mouthereau F., Simoes M., Hwang C., Cheng C. Gravity change in Taiwan from kinematic orogeny models, Geodynamics and Environment in East Asia (GEEA) meeting, Aix en Provence, France.
- 2010, **Mouyen M.**, Masson F., Hwang C., Cheng C., Le Moigne N., Lee C., Kao R., Hsieh N. Absolute gravity monitoring of the Taiwan Orogen, GEEA meeting, Aix en Provence, France.
- 2010, Masson F., Hwang C., Wu Y.-M., Ponton F., Lehujeur M., **Mouyen M.**, Dorbath C. Crustal structure of Taiwan from gravity modelling and sequential inversion of seismological and gravity data, GEEA meeting, Aix en Provence, France.
- 2010, **Mouyen M.**, Masson F., Hwang C., Cheng C., Le Moigne N., Lee C., Kao R., Hsieh N. Time-lapse absolute gravity measurements in the Taiwan Orogen, American Geophysical Union (AGU) - Western Pacific Geophysics Meeting, Hsinchu, Taiwan.
- 2010, Maurin T., Masson F., Rangin C., Min U.T., Collard P., **Mouyen M.**, Mémin M. First GPS results in northern Myanmar: constant and localised slip rate along the Sagaing fault, European Geophysical Union (EGU) meeting, Vienna, Austria.
- 2010, **Mouyen M.**, Masson F., Mouthereau F., Hwang C., Cheng C. Modelling temporal gravity changes through the south of the Taiwan Orogen, EGU Meeting, Vienna, Austria.
- 2010, **Mouyen M.**, Masson F., Hwang C., Cheng C., Le Moigne N., Lee C., Kao R., Hsieh N. Four Years of Absolute Gravity in the Taiwan Orogen (AGTO), EGU Meeting, Vienna, Austria.
- 2009, **Mouyen M.**, Masson F., Hwang C., Cheng C., Le Moigne N., Lee C., Kao R., Hsieh N. Four Years of Absolute Gravity in the Taiwan Orogen (AGTO), AGU Meeting, San Francisco, CA, USA.
- 2008, Masson F., **Mouyen M.**, Hwang C., Cheng C., Lee C., Le Moigne N., Hinderer J., Cattin R., Luck B., Bayer R., Malavieille J. Study of the Taiwanese orogen from absolute gravity data , AGU Meeting, San Francisco, CA, USA.

- 2008, **Mouyen M.**, Cattin R. Masson F. Coulomb stress change due to seismic cycle in Western Taiwan over the last 270 years , AGU Meeting, San Francisco, CA, USA.