ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO
selezione pubblica per n. 1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera a) della Legge 240/2010 per il settore concorsuale 04/A2, settore scientifico-disciplinare GEO/03 presso il Dipartimento di Scienze della Terra "Ardito Desio", (avviso bando pubblicato sulla G.U. n. 7 del 25.01.2019) Codice concorso 3985

[Lorenzo Gemignani]
CURRICULUM VITAE

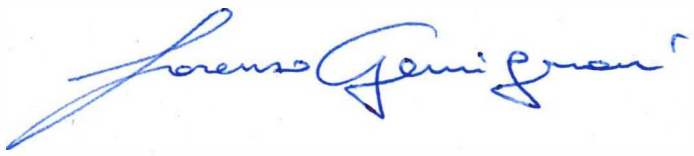
INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	GEMIGNANI
NOME	LORENZO
DATA DI NASCITA	[17, Agosto, 1985]

INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)

Inserisci anche i progetti a cui ai partecipato i seminari a cui sei stato invitato i corsi che dato etc.

Data 20.02.2019 Luogo Berlino



Lorenzo Gemignani, Dr.

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Languages

Italian	Native	*Mother Tongue*
English	Advanced	*Working proficiency*
French	Advanced	*Working proficiency*
Dutch	basic	*Colloquial*

Education

2013-2018 **Ph.D. in Earth Science**, *Vrije Universiteit Amsterdam*, Amsterdam, Netherlands

Granted by Marie Curie Action, EU FP7 (grant agreement no 316966).

Main activity

- Field mapping geology, structural geology analysis, sedimentary basin analysis and sampling.
- Watershed analysis
- Electron Microprobe analysis
- Ar-Ar and Fission-track radio isotopic dating
- Development of analytical techniques for Noble Gas mass-spectrometry
- Numerical modeling
- Paleo - magnetic profile of the syn-tectonic sedimentary sequences, Remi Section (NW India)
- Tutoring undergraduate and master students during courses and thesis preparation.

2009–2011 **MSc, Geological Science and Technology**, *Università di Pisa*, Pisa, Italy

2007 **Scholarship** "Pierre et Marie Curie" University, Paris, France

Granted by Socrates-Erasmus interchange program

2005-2009 **BSc, Earth Sciences**, *Università degli Studi di Milano*, Milan, Italy

2000-2005 **Maturitá Classica**, *Liceo Classico G. Parini*, Milan, Italy

Internships

2014 **Radio Isotope Dating Techniques**, *VU Amsterdam and ThermoFisher Scientific, Bremen, Germany*

2013 **Surface Processes**, *ISTerre, Grenoble, France lead by Prof. Jean Braun and Prof. Peter van der Beek.*

2010 **Basic of Gravimetry:** data acquisition and processing for Oil and Gas exploration, *Università di Trieste; OGS, Italy*

2009 - 2010 **GIS and Cartography** , *Università di Pisa; Pisa, Italy*

Research experience

Current position

November 2018 **Post-Doc Associate Researcher, Responsible of the fission-track laboratory, Tectonic and Sedimentary System, FU Berlin, Germany.**

Previous academic positions

2016 - 2018 **Scientific Researcher, VU Amsterdam, the Netherlands.**

2017 - 2018 **Lecturer, University of Torino, Italy.**

- Teaching classes and basic of laboratory analysis to undergraduate students.
- Field work classes of the fold and thrust belt, Sicily.

Current Research Project

- AlpArray Mountain building processes - EU founded research project.
- Varisican orogeny in the Mediterranean area: in collaboration with Ar- Laboratory VU Amsterdam, the Netherlands, and University of Torino, Turin, Italy.

Completed Grants / Fellowship

- MiNeRAL - Erasmus +EU founded research project, University of Torino, Turin, Italy.
- iTECC by the FP7/People/2012/ITN, grant316966.

Teaching activity

- Geological Maps and Profile II (3 CPU) - Master's program
- Advanced geological mapping (6 CPU) - Master's program
- Laboratory methods for structural geology and thermochronology (3CPU) - Master's program

Ph.D. Theses

- Msc. Mark Grund, Tectonic evolution of the SPNF, Northern Dinarides. (FU-Berlin).
- MSc. Julian Hülsher, Source to sink analysis of the Molasse Foreland basin. (FU-Berlin).

Msc and Master theses Theses

- Msc. Thomas van Gerve, Ar-dating of the eastern himalaya, implication for provenance studies.

Invited Talks

- 12/2018 Institute colloquium, Potsdam-University, Potsdam, Germany.
- 04/2018 Institute symposium, Università degli Studi di Torino, Turin, Italy.
- 07/2018 Institute symposium, ISTerre, Grenoble, France.
- 03/2017 Institute symposium,LAC - Lancaster, UK.

Congress committee

2016 **Scientific and Organisation committee**, *HKT, 2016*, Aussois, France

International Field Work

- 2017: Guide to fold and thrust belt geology, an example from East Sicily (Mineral project, 3 weeks).
- 2015: Yanmou basin, Hunnan-Sichuan , China (iTECC project, 5 weeks).
- 2014: Inside Himalayan lakes, Western Nepal (iTECC project, 8 weeks).
- 2013: Arunachal Pradesh and Assam, India (iTECC project, 9 weeks).
- 2013: Eastern Alps: Austria, Switzerland, Italy, Slovenia (iTECC project, 2 weeks).
- 2010: Himalaya, Nepal (PRIN 2010, 8 weeks)

Technical Experiences

2012–2013 **Consultant geologist**, *Project ENOF (Algeria)*, Geofield srl., San Miniato (Pi), Italy.

- Ore deposit evaluation and mine planning.
- Independent technical reporting, due diligence.

2011–2013 **Geophysics data surveys team leader**, *Geoenergy srl.*, Cascina (Pi), Italy.

- Gravity meter planning and data acquisition.
- Low Frequency Passive Seismic Spectroscopy data acquisition.

Skills

Analytical field geology

- Field work analysis of structural data, structural analysis of rocks fabric and kinematic, surface processes and geo-structural mapping .
  Field Technology: geologic compass, GPS and GNSS receivers; FieldClino by Mid land valley, Qfield by QGis; Surface seismometer Guralp; Gravimeter Shintrex GC5.
- Micro-structural analysis with optic microscopy

Analytical Chemistry

- Ar-Dating and fission tracks radio-isotopic dating.
- Isotope Ratio Mass Spectrometry.
  Technology: Helix plus MC, ARGUS VI; Thermo Fisher Scientific
- Mass spectrometry
- Gas chromatography

Geophysics/Geology

- Exploration geophysics: passive seismic, gravimetry analysis
- Geographical Information System (GIS)
- GPS and GNSS: cartographic analysis/geological mapping

Management activity

- Project leading
- Team organization
- Field expedition organization.
  High altitude (>4000 m a.s.l) and remote area field expeditions

Molecular and atomic spectrometry

- Noble-Gas Mass Spectrometry ($^{40}Ar/^{39}Ar$)
- Scanning Electron Microscopy (EMP and SEM)
- GC/MS quadrupole ion-trap analyzer
- Fission track analysis (zircon - apatite)
- ICP-MS spectrometry
- LA ICP-MS spectrometry

Informatics

- Linux and Windows OS
- Microsoft Office, Open Office
- Adobe suite Illustrator and Photo-shop
- GIS (ArcGIS, QGIS)
- Languages: Matlab and Ri 386 (basic)
- LaTeX

Publication

Peer- Reviewed publications

- Gemignani, L., Kuiper, F.K., Wijbrans, J., Xilin Sun, Santato, A., (in press), Improving the precision of single grain mica 40Ar/39Ar-dating on smaller and younger muscovite grains: application to provenance studies. Chemical Geology.
- Najman, Y., Mrk, C., Barfod, D., Carter, A., Parrish, A., Chew, D.,Gemignani, L., (in Press), Spatial and temporal trends in exhumation of the Eastern Himalaya and syntaxis as determined from a multi-technique detrital thermochronological study of the Bengal Fan. GSA Bulletin.
- Gemignani, L., Beek van der, P., Braun, J., Najman, Y., Bernet, M., Garzanti, E.A., Wijbrans R.J., (2018). Downstream evolution of the thermochronologic age signal in the Brahmaputra catchment (eastern Himalaya): implications for the detrital record of erosion. EARTH AND PLANETARY SCIENCE LETTERS n. 499, DOI: 10.1016/j.epsl.2018.07.019.
- Braun J, Gemignani, L., Beek van der, P. (2018). Extracting information on the spatial variability in erosion rate stored in detrital cooling age distributions in river sands. EARTH SURFACE DYNAMICS DISCUSSIONS, vol. 6, p. 257-270, ISSN: 2196-6338
- Zhuang, G., Najman, Y., Tian, Y., Carter, A., Gemignani, L., Wijbrans, J., Qasim, M.J., Asif Khan, J. M. (2018). Insights into the evolution of the Hindu Kush-Kohistan- Karakoram from modern river sand detrital geo- and thermochronological studies. JOURNAL OF THE GEOLOGICAL SOCIETY, ISSN: 0016-7649, doi: https://doi.org/10.6084/m9.figshare.c.4124573
- Gemignani, L., Sun, X., Braun, J., Gerve van der, T.D., Wijbrans, J. R., (2017). A new detrital mica 40Ar/39Ar dating approach for provenance and exhumation of the Eastern Alps. TECTONICS, vol. 36, p. 1521-1537, ISSN: 1944-919404.
- Carosi, R., Montomoli, C., Iaccarino, S., Massonne, H., Rubatto, D., Langone, A.,Gemignani, L., Visonà, D. (2016). Middle to late Eocene exhumation of the Greater Himalayan Sequence in the Central Himalayas: Progressive accretion from the Indian plate. GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol. 128, ISSN: 0016-7606, doi: 10.1130/B31471.1
- Carosi, R.,Gemignani, L., Godin, L., Iaccarino, S., Larson, K.P., Montomoli, C., Rai, S.M. (2014). A geological journey through the deepest gorge on earth: The kali gandaki valley section, west-central nepal. JOURNAL OF THE VIRTUAL EXPLORER, ISSN: 1441-8142, doi: 10.3809/Jvirtex.vol.2014.052.

Published thesis

- Gemignani, L., (2018). Extracting erosion and exhumation patterns from detrital thermochronology, an example from the eastern Himalaya. PhD Thesis Manuscript, in English, 186 pages, ISBN: 978-90-9030865-4.
- Gemignani, L., (2011). La zona di taglio Kalopani KSZ (massiccio dell'Annapurna, Mustang, Nepal): analisi strutturale e geocronologia. MSc Dissertation, in Italian, 126 pages.

Selected Abstracts

- Gemignani, L., Peacock, D., Jessell, M., Carosi, R., (2018). TecTask "OpenTerminology", a public debate regarding geological terminology for Geoscientists. In: Yorsget, Montgenevre, France 2-6 July, 2018. Yorsget Abstract.
- Gemignani, L., Beek van der, P., Najman, Y., Braun, J., Garzanti, E.F., Bernet, M., Wijbrans, J. R, (2017). Long term and present-day erosion of the Eastern Himalaya as detected by detrital thermochronology. Geophysical Research Abstracts, Vol. 19, EGU2017-13123, EGU general Assembly 2017.
- Gemignani, L., Sun X, Braun J, Gerve van der T, Wijbrans J R, (2017). Detrital mica 40Ar/39Ar approach for provenance and exhumation of the Eastern Alps. Geophysical Research Abstracts, Vol. 19, EGU2017-4562, 2017, EGU General Assembly 2017.
- Van Der Beek, P. A.; Govin, G.; Najman, Y.; Millar, I.; Bernet, M.;Gemignani, L.; Pascale, H.; Wijbrans, J. R.; Dupont Nivet, G., (2017). Onset of Rapid Exhumation in the Namche Barwa Syntaxis Constrained by Detrital Thermochronology. American Geophysical Union, Fall Meeting 2017, abstract T12A.
- Gemignani, L., Wijbrans, J.R., Najman, Y., Beek van der, P., Bernet, M., (2016). Downstream Evolution of the Eastern Himalayan Detrital Signal as Recorded by Thermochronology in the Tsangpo–Siang–Brahmaputra River Sediments. In: Himalayan–Karakorum–Tibet Workshop, Aussois, France.
- Gemignani, L., Wijbrans, J.R., Najman, Y., Beek van der, P., (2015). Intense dilution of the Eastern Himalayan syntaxis detrital signal as recorded by thermochronology in the Yarlung-Siang-Brahmaputra river sediments. American Geophysical Union, Fall Meeting 2015, abstract id. V33D-3125.