

CURRICULUM VITAE

Personal data

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EDUCATION

- **Ph.D. in Geophysics**, 28/05/2010, Università Alma Mater Studiorum, Bologna, Italy
Thesis: Velocity structure and seismic anisotropy in the crust and upper-mantle from Receiver Function analysis: three case studies in Italy
Supervisor: Dr. F. P. Luente
- **Laurea in Geology**, cum Laude, 22/02/2006, Università La Sapienza, Faculty of Mathematics, Physics and Natural Sciences, Roma, Italy
Thesis: Crust and Mantle Structure under Sardinia achieved by Receiver Functions Analysis
Supervisors: Prof. C. Doglioni, Dr. C. Chiarabba

HABILITATIONS

- 04/04/2017 - ASN (Abilitazione Scientifica Nazionale) Academic qualification as Associate Professor for the subject of Geophysics (04/A4), Italian Ministry of University and Research
- State exam and licensed as a profession Geologist, 06/2009

PROFESSIONAL APPOINTMENTS

- **28/03/2011- present:** University Assistant/Post-Doc, **University of Vienna**, Meteorology and Geophysics Department.

This professional appointment has been interrupted by two breaks due to maternity leave:

15/01/2015 to 07/05/2016,

19/01/2017 to 17/03/2018.

- **01/03/2010 – 27/03/2011:** Post-Doc, **Istituto Nazionale di Geofisica e Vulcanologia, Rome**, Centro Nazionale Terremoti, Italy.
- **01/06/2008 – 28/02/2010:** Fellowship Holder, **Istituto Nazionale di Geofisica e Vulcanologia, Rome**, Centro Nazionale Terremoti, Italy.
- **01/12/2007 – 31/05/2008:** Visiting Assistant in Research, **Yale University**,

Department of Geology and Geophysics, CT, USA.

- **01/04/2006 – 31/11/2007:** Fellowship Holder, **Istituto Nazionale di Geofisica e Vulcanologia, Rome**, Centro Nazionale Terremoti, Italy.

Invitations to present at scientific conferences;

Bianchi, I., Qorbani, E., Bokelmann, G., Constraining Crustal Anisotropy by Receiver Functions at the Deep Continental Drilling Site KTB in Southern Germany, Invited presentation at European Geoscience Union, **EGU 2016**, Vienna, Austria

Bianchi, I., Apoloner, M.-T., Qorbani, E., Lloyd, S., Gribovszki, K., Gerner, A., Arneitz, P., Jordakiev, P., Bokelmann, G., The Ground Truth of Crustal Anisotropy from Receiver Functions, Invited presentation at the American Geophysical Union, **AGU fall Meeting 2014**, San Francisco, USA

Academic prize

Post-Doc award 2014 of the Faculty of Earth Sciences, Geography and Astronomy, University of Vienna (Universität Wien, Fakultät für Geowissenschaften, Geographie und Astronomie); 15.000 Euro for research activities.

Funding

- “EASI-13.5” project (07/2014-07/2015), funded by the Austrian Academy of Science (ÖAW), 5000 euro. PI: **I. Bianchi**. Part of the “Eastern Alpine Seismic Investigation” (EASI) by I.G. Prague, Uni. Vienna, ETH Zurich.
- “Ground Truth and Application for the Anisotropic Receiver Functions Technique” (2012-2014). FWF-Project: P 24218-N24 (Austrian Science Fund), 72000 euro. PI: G. Bokelmann, co-PI: **I. Bianchi**
- “AlpArray Austria” (2014-2017). FWF-Project: P26391 (Austrian Science Fund), 540000 euro. PI: G. Bokelmann, co-PI: **I. Bianchi**

Research expeditions

- Field campaign for installing a temporary seismic network at the KTB site in Southern Germany (2012)
- Field campaign for installing a temporary seismic network as part of the EASI-13.5 project (2014)

Peer review activities, editorships and/or memberships in academic organizations

- Topical Editor of the European Geoscience Union’s journal “Solid Earth”
- Editorial Board of AIMs Geoscience
- Appreciation for peer reviews for the journal “Geochemistry, Geophysics, Geosystems” for providing three reviews during 2014. Becker, T. W., J. Bass, J. Blachert-Toft, L. Derry, C.-T. Lee, J. Tyburczy, D. Vance, and Y. Yokoyama (2015), Appreciation of peer reviewers for 2014, *Geochem. Geophys. Geosyst.*, 16, 2473–2479, doi:10.1002/2015GC005982.
- Reviewer for international Journals: *Journal of Geophysical Research - Solid Earth; Geochemistry, Geophysics, Geosystems; Earth and Planetary Science Letters; Solid Earth; Terra Nova*.
- Reviewer for international projects: National Science Foundation (NSF); National Science Centre, Poland.

- EGU, European Geoscience Union member since 2011
- AGS, Austrian Geophysical society member since 2017

Workshop and conferences sessions organization

- **Convener at European Geosciences Union, General Assembly 2018.**
Session GD2.2/SM4.14: *Crust-Lithosphere-Asthenosphere Interplay, Deformation and Dynamics*. Conveners: E. Qorbani, E. Willingshofer, **I. Bianchi**, B. Kaus, S. Brawnlee
- **Convener at European Geosciences Union, General Assembly 2017.**
Session GD2.3/SM6.8: *Lithosphere-asthenosphere interplay, deformation and dynamics*. Conveners: E. Qorbani, **I. Bianchi**, E. Willingshofer, B. Kaus, S. Brawnlee, A. Tommasi
- **Session organization at the European Seismological Commission, 2016, Trieste.**
Eastern Alpine seismological Investigation: state of the art of Alpine system from the Bohemian Massif to the Adriatic Sea. Conveners: **I. Bianchi**, J. Plomerova, G. Hetényi, E. Kissling, P. Kolinsky
- **Convener at European Geosciences Union, General Assembly 2015.**
Session SM4.6: *Development, evolution and challenges of the Receiver Function technique*. Conveners: **I. Bianchi**, M. S. Miller, F. P. Lucente
- **Convener at European Geosciences Union, General Assembly 2012.**
Session GD2.2/GMPV6.5/SM3.7/TS3.8: *Crustal Dynamics vs Anisotropy*. Convener: **I. Bianchi**. Co-Conveners: M. Miensopust, B. Grasemann, Y. Gueguen, W. Rabbel
- **Workshop Organization Committee**
24-27 April 2014 - Hainburg/Donau (Austria). *The lithosphere-asthenosphere boundary depth paradox – LABPAX*. Committee: U. Achauer, J. Plomerova, **I. Bianchi**, J. Ritter.

Teaching and Supervising activity

- **Teaching:** Teaching in the frame of the Structure of the Earth course, for the international Master of Physics of the Earth (University of Vienna and University of Bratislava)
- **Students co-supervision:**
PhD Thesis: (co-supervision) E. Qorbani Chegeni, University of Vienna, 2012-2015. Thesis title: "Anisotropy and deformation beneath the Eastern Alps"
Master's student: (co-supervision) E. Király, from École Normale Supérieure, Paris, France, 2012.
Master's student: J. M. T. Rocamora, 2018- ongoing, University of Vienna.

Other invitations

Bianchi, I. and Bokelmann, G., Constraining Crustal Anisotropy by Receiver Functions at the Deep Continental Drilling Site KTB in Southern Germany, invited talk at the Institute of Geosciences, University of Kiel, 2016.

Bianchi, I., Miller, M. S., Bokelmann, G., The Lithosphere-Asthenosphere Boundary below the Alpine Chain, LABPAX workshop, Hainburg, 2014. Solicited.

Bianchi I., Receiver function Analysis as a Tool to Unravel Seismic Anisotropy at Depth, invited talk at GFU, Prague, 2012

PUBLICATION LIST

Names of supervised students are underlined, for each article the impact factor (IF) of the journal and the number of citations according to Web of Science is reported (WoS).

1. Hetenyi, G., Plomerova, J., **Bianchi, I.**, Kampfova Exnerova, H., Bokelmann, G., Handy, M. R., Babuska, V. From mountain summits to roots: Crustal structure of the Eastern Alps and Bohemian Massif along longitude 13.3°E, (2018) *Tectonophysics*, ISSN 0040-1951, <https://doi.org/10.1016/j.tecto.2018.07.001>. [IF 2.686; cit WoS: 0]
2. **Bianchi, I.**, Bokelmann, G. Imaging the Variscan suture at the KTB deep drilling site, Germany, (2018) *Geophysical Journal International*, 213 (3), pp 2138–2146, <https://doi.org/10.1093/gji/ggy098> [IF: 2.528; cit WoS: 0]
3. **Bianchi, I.**, F. P. Lucente, M. Di Bona, A. Govoni, N. Piana Agostinetti, (2016), Crustal structure and deformation across a mature slab tear zone: the case of southern Tyrrhenian Subduction (Italy), *Geophys. Res. Lett.*; 10.1002/2016GL070978. [IF: 4.25; cit. WoS: 2]
4. Chiarabba, C., N. P. Agostinetti, and **I. Bianchi**, (2016), Lithospheric fault and kinematic decoupling o f the Apennines system across the Pollino range, *Geophys. Res. Lett.*, 43,3201–3207, doi:10.1002/2015GL067610. [IF: 4.25; cit. WoS: 6]
5. **Bianchi, I.**, Anselmi, M., Apoloner, M.T., Qorbani, E., Gribovski, K., and G. Bokelmann, (2015). The installation campaign of 9 seismic stations around the KTB site to test anisotropy detection by the Receiver Function Technique. *Adv. Geosc. Special Issue: EGU2015 SM1.2/GI1.5 session "Improving seismic networks performances: from site selection to data integration".* [IF 1.02; cit WoS: 1]
6. **Bianchi, I.**, Bokelmann, G., Shiomi, K., (2015). Crustal anisotropy across Northern Japan from receiver functions, *Journal of Geophysical Research*, DOI: 10.1002/2014JB011681. [IF: 3.35; cit. WoS: 5]
7. Qorbani, E., Kurz, W., **Bianchi, I.**, Bokelmann, G., (2015). Correlated crustal and mantle deformation in the Tauern Window, Eastern Alps, *Austrian Journal of Earth Sciences*, 108/1, 161-173. [IF 0.618; cit. WoS: 0]
8. Qorbani, E., **Bianchi, I.**, Bokelmann, G., (2015). Slab detachment under the Eastern Alps seen by seismic anisotropy, *Earth and Planetary Science Letters*, 409, 96-108, 10.1016/j.epsl.2014.10.049. [IF 4.581; cit. WoS: 15]
9. **Bianchi, I.**, Behm, M., Rumpfhuber, E.M., Bokelmann, G., (2015). A new seismic data set on the depth of the Moho in the Alps, *Pure and Applied Geophysics*, 172/2, 295-308. doi:10.1007/s00024-014-0953-1. [IF: 1.652; cit. WoS: 2]
10. Amato, A., **Bianchi, I.**, Piana Agostinetti, N., (2014). Apulian crust: Top to bottom, *Journal of Geodynamics*, 82/SI, 125-137. doi: 10.1016/j.jog.2014.09.007. [IF: 2.142; cit. WoS: 7]
11. Apoloner, M.-T., Bokelmann, G., **Bianchi, I.**, Brückl, E., Hausmann, H., Mertl, S., Meurers, R., (2014). The 2013 Earthquake Series in the Southern Vienna Basin: location, *Adv. Geosci.*, 36,77-80, doi: 10.5194/adgeo-36-77-2014. [IF 1.02; cit

WoS: 0]

12. **Bianchi, I.**, Bokelmann, G., (2014). Seismic signature of the Alpine indentation, evidence from the Eastern Alps, *Journal of Geodynamics*, 82/SI, 69-77. DOI: 10.1016/j.jog.2014.07.005. [IF: 2.142; cit WoS: 3]
13. Chiarabba, C., Giacomuzzi, G., **Bianchi, I.**, Agostinetti, N.P., Park, J., (2014). From underplating to delamination-retreat in the northern Apennines, *Earth and Planetary Science Letters*, 403, 108–116, DOI:10.1016/j.epsl.2014.06.041. [IF 4.581; cit. WoS: 19]
14. **Bianchi, I.**, Miller, M.S., Bokelmann, G., (2014) Insights on the upper mantle beneath the Eastern Alps, *Earth and Planetary Science Letters*, 403, 199-209, DOI: 10.1016/j.epsl.2014.06.051. [IF 4.581; cit. WoS: 12]
15. Buttinelli, M., Chiarabba, C., Anselmi M., **Bianchi, I.**, De Rita, D., Quattrocchi, F., (2014). Crustal structure of Northern Latium (central Italy) from receiver functions analysis: new evidences of a post-collisional back-arc margin evolution, *Tectonophysics*, 621, 148-158. ISSN 0040-1951. [IF 2.686; cit WoS: 6]
16. Bokelmann, G., E. Qorbani Chegeni, **I. Bianchi**, (2013). Seismic Anisotropy and Large-Scale Deformation of the Eastern Alps, *Earth and Planetary Science Letters*, 383, 1-6, doi:10.1016/j.epsl.2013.09.019. [IF 4.581; cit. WoS: 16]
17. Spada, M., **I. Bianchi**, E. Kissling, N. Piana Agostinetti, and S. Wiemer, (2013). Combining controlled-source seismology and receiver function information to derive 3-D Moho topography for Italy, *Geophys. J. Int.*, 194/2, 1050-1068, doi:10.1093/gji/ggt148. [IF: 2.528; cit. WoS: 39]
18. **Király, E.**, **I. Bianchi**, G. Bokelmann, (2012). Seismic anisotropy in the south western pacific region from shear wave splitting, *Geophys. Res. Lett.*, 93, L05302. doi:10.1029/2011GL050407. [IF: 4.25; cit. WoS: 7]
19. Seccia, D., C. Chiarabba, P. De Gori, **I. Bianchi**, D. Hill (2011). Evidence for the contemporary magmatic system beneath Long Valley Caldera from local earthquake tomography and receiver function analysis, *J. Geophys. Res.* 166, B12314. DOI: 10.1029/2011JB008471. [IF: 3.35; cit. WoS: 21]
20. Di Stefano, R., **I. Bianchi**, M. G. Ciaccio, G. Carrara, and E. Kissling (2011). Three-dimensional Moho topography in Italy: New constraints from receiver functions and controlled source seismology, *Geochem. Geophys. Geosyst.*, 12, Q09006, doi:10.1029/2011GC003649. [IF: 3.2; cit. WoS: 34]
21. Piana Agostinetti, N., **I. Bianchi**, A. Amato, A., C. Chiarabba (2011). Fluid Migration in Continental Subduction. *Earth Planet. Sci. Lett.*, 302, 3-4, 267-278. ISSN 0012-821X, <http://dx.doi.org/10.1016/j.epsl.2010.10.039>. [IF 4.581; cit. WoS: 30]
22. **Bianchi, I.**, C. Chiarabba, N. Piana Agostinetti. (2010). The 2009 L'Aquila (central Italy) earthquake rupture controlled by a high Vs barrier: a Receiver Function application. *J. Geophys. Res.*, 115, B12326, doi:10.1029/2009JB007087. [IF: 3.35; cit. WoS: 22]
23. **Bianchi, I.**, J. Park, N. Piana Agostinetti, V. Levin, (2010). Mapping seismic anisotropy using harmonic decomposition of Receiver Functions: an application to

Northern Apennines, Italy. J. Geophys. Res., 115, B12317, doi:10.1029/2009JB007061. [IF: 3.35; cit. WoS: 56]

24. Chiarabba, C., Bagh S., **Bianchi I.**, De Gori P., Barchi M., (2010). Deep structural heterogeneities and the tectonic evolution of the Abruzzi region (Central Apennines, Italy) revealed by microseismicity, seismic tomography, and teleseismic receiver functions. *Earth Planet. Sci. Lett.*, 295/3-4, 462-476, doi:10.1016/j.epsl.2010.04.028. . [IF 4.581; cit. WoS: 41]
25. Chiarabba, C., Amato A., Anselmi M., Baccheschi P., **Bianchi I.**, Cattaneo M., Cecere G., Chiaraluce L., Ciaccio M.G., De Gori P., De Luca G., Di Bona M., Di Stefano R., Faenza L., Govoni A., Improta L., Lucente F.P., Marchetti A., Margheriti L., Mele G., Michelini A., Monachesi G., Moretti M., Pastori M., Piana Agostinetti N., Piccinini D., Roselli P., Seccia D., Valoroso L., (2009) The 2009 l'Aquila (central Italy) Mw 6.3 earthquake: main shock and aftershocks. *Geophys. Res. Lett.*, 36, L18308, doi:10.1029/2009GL039627. [IF: 4.25; cit. WoS: 212]
26. **Bianchi, I.**, N. Piana Agostinetti, P. De Gori, C. Chiarabba. (2008). Deep structure of the Colli Albani Volcanic District (central Italy) from Receiver Function analysis. *J. Geophys. Res.*, 113, B09313, doi:10.1029/2007JB005548. [IF: 3.35; cit. WoS: 38]
27. Moretti, M., P. Augliera, **I. Bianchi**, L. Chiaraluce, G. B. Cimini, G. Colasanti, E. D'Alema, R. Di Stefano, A. Frepoli, L. Giovani, A. Govoni, D. Latorre, A. Marchetti, S. Marzorati, M. Massa, M. Silvestri (2011). Il terremoto del 23 Dicembre 2008 nell'Appennino Reggiano-Parmense: l'intervento della RE.MO (Rete Sismica Mobile Stand Alone). Rapporti tecnici INGV, n. 179. (ISSN 2039-7941)
28. Anselmi, A., M. Buttinelli, **I. Bianchi**, G. Colasanti, C. Chiarabba, F. Quattrocchi (2011). La Campagna sismica del Progetto Alto-Lazio: Rapporto delle Attività' 2008-2009. Rapporti tecnici INGV, n. 183. (ISSN 2039-7941)

Conference Papers

1. Chiarabba, C., Piana Agostinetti, N., **Bianchi, I.**, Giacomuzzi, G. The Southern Tyrrhenian subduction zone: An upgraded view from seismological studies (2012) *Rendiconti Online Società Geologica Italiana* 21 (PART 1) P. 217. (**ISSN:** 2038-1727)
2. **Bianchi, I.**, Giacomuzzi, G., Chiarabba, C., Di Stefano, R., Piana Agostinetti, N., Amato, A. The complex lithosphere structure of Central Apennines as revealed by combined Tomographic and Receiver Functions images (2010) *Rendiconti Online Società Geologica Italiana* 11 (1) P. 309. (**ISSN:** 2038-1727)