

CURRICULUM VITAE

BRATTICH ERIKA

Erika Brattich, PhD

Email: erika.brattich@unibo.it

Junior Assistant Professor

Phone: (+39) - 051-2095194 (office)

Università di Bologna, Dipartimento di Fisica e

(+39) - 0543-423366 (home)

Astronomia “Augusto Righi”, Via Irnerio, 46

(+39) 335-7304384 (mobile)

40126 Bologna (BO) ITALY

BIOGRAPHICAL DATA

Birth date: 04th December 1984

Place of Birth: Genova, ITALY

Citizenship: Italy

Sex: Female

EDUCATION

2022

National scientific qualification to the role of Associate Professor in the FIS/06 (Physics of the Earth System and the Circumterrestrial Medium) sector

2011-2014 (dissertation of the PhD thesis 09th April 2014)

PhD Student in Earth Sciences, Doctor Europaeus label

BiGEA, Dept. of Biological, Geological and Environmental Sciences, University of Bologna, Bologna, Italy

Research topic: Origin and variability of PM₁₀ and atmospheric radiotracers at the WMO-GAW station of Mt. Cimone (1998-2011) and in the central Po Valley (supervisor: Prof. Laura Tositti – Dept. of Chemistry “G. Ciamician”, University of Bologna)

CURRICULUM VITAE

BRATTICH ERIKA

2007-2010

Master degree in Physics, specialization in Atmospheric Physics and Meteorology

Dept. of Physics, University of Bologna, Bologna, Italy

Master thesis in Environmental Chemistry (supervisor: Prof. Laura Tositti, Dept. of Chemistry “G. Ciamician”, University of Bologna; co-supervisor: Dr. Mauro Masiol, Dept. of Environmental Sciences, University “Cà Foscari” of Venice) “Atmospheric aerosol composition in Bologna: receptor modeling application” (Level in the national classification: 110/110)

2003-2007

Bachelor in Atmospheric Physics and Meteorology

Dept. of Physics, University of Bologna, Bologna, Italy

Bachelor thesis in Atmospheric Measurements Laboratory (supervisor: Prof. Marina Caporaloni, Dept. of Physics University of Bologna) “Acquisition and data analysis techniques of photochemical smog in the area of Bologna” (level in the national classification: 109/110)

1998-2003

High school linguistic leaving qualification

Liceo Classico Dante Alighieri, Ravenna, Italy (level in the national classification 100/100)

WORK EXPERIENCE

August 2017-Jul 2022:

Junior Assistant Professor

Department of Physics and Astronomy DIFA

University of Bologna

(Prof. Silvana Di Sabatino)

January 2014-July 2017:

CURRICULUM VITAE

BRATTICH ERIKA

Assistant Research Fellow

Department of Chemistry “G. Ciamician”

Environmental Chemistry and Radioactivity Laboratory

University of Bologna

(supervisor: Prof. Laura Tositti)

June-July 2016

Visiting Researcher

National Institute of Aerospace

Hampton, Virginia, USA

(Dr. Hongyu Liu, NIA/NASA)

April-August 2013

Visiting PhD Student at Universidad Miguel Hernandez, Elche, Spain

(Prof. José Antonio Garcia Orza, SCOLAb Fisica Aplicada)

January-February 2013

Visiting PhD Student at the National Institute of Aerospace (NIA), Hampton, Virginia, USA

(Dr. Hongyu Liu, NIA/NASA Langley Research Center)

2011-2014

PhD student in Earth Sciences

University of Bologna, Department of Biological, Geological and-Environmental Sciences

(supervisor: Prof. Laura Tositti)

September-December 2010, May 2007, July 2008, July-September 2009

Employee, Global Naval Service, Ravenna

CURRICULUM VITAE

BRATTICH ERIKA

June 2010 – August 2010

Assistant research fellow, Department of Chemistry “G. Ciamician”, University of Bologna
(supervisor: Prof. Laura Tositti)

September-November 2009

Internship, Department of Chemistry “G. Ciamician”, University of Bologna

May-September 2007

Swimming pool attendant, Cooperativa Arcobaleno, Ravenna

September 2006

Internship, ARPA Emilia-Romagna, Bologna

TEACHING EXPERIENCE

Academic years 2017/2018, 2018/2019, 2019/20, 2021/22

Second cycle degree in Physics of the Earth System

- Climatology, Module 2, University of Bologna, Department of Physics and Astronomy
- Atmospheric Chemistry course, Module 2 “Receptor modeling”, University of Bologna, Department of Physics, Department of Physics and Astronomy

Academic years 2020/21

Second cycle degree in Physics of the Earth System

- Laboratory of Atmospheric Physics, Module 2, University of Bologna, Department of Physics and Astronomy
- Atmospheric Chemistry course, Module 2 “Receptor modeling”, University of Bologna, Department of Physics, Department of Physics and Astronomy

CURRICULUM VITAE

BRATTICH ERIKA

January 2019, 2020, April 2021, January 2022: Invited Professor in Urban Climate and Sustainability International Erasmus Mundus Joint Master of Science Programme (MUrCS), Climatology Module (Chapters 8-12)

Academic year 2016/2017

Adjunct Professor, School of Science, Second cycle degree in Physics of the Earth System Atmospheric Chemistry course, Module 2 “Receptor modeling”
University of Bologna, Department of Physics and Astronomy

Academic year 2011/2012, September-December 2011

Tutor (teaching assistant) in the Atmospheric Measurements Laboratory course, School of Science, First cycle degree in Atmospheric physics and meteorology
University of Bologna, Department of Physics and Astronomy

INSTITUTIONAL RESPONSIBILITIES

2022: Member of the evaluation committee of the PhD in Geophysics, PhD cycle 32 and 33

2019-2021: Member of the Quality Assurance Committee of the Master Degree in Physics of the Earth Sciences

25 October 2018: Member of the PhD dissertation Committee, University of Granada, PhD in Chemistry, Department of Inorganic Chemistry, Granada, Spain

THESIS SUPERVISION

Supervisor of the following bachelor and master theses:

- Rusticali Valeria, bachelor degree in Physics, University of Bologna, 2019, “Confronto tra distribuzioni dimensionali di particelle misurate in due street canyons della città di Bologna.

CURRICULUM VITAE

BRATTICH ERIKA

Co-supervisor: Prof. Federico Porcù.

- Cangiarella Simone, bachelor degree in Physics, University of Bologna, 2020. “Utilizzo e prestazioni di sensori low-cost per il monitoraggio di varie frazioni dimensionali di particolato atmosferico”.
- Tartari Giacomo, bachelor degree in Physics, University of Bologna, 2021. “Analisi di un evento eccezionale di trasporto di polveri desertiche dal lago Aral al Nord Italia”.
- Moraglia Giacomo, master degree in Physics of the Earth System, University of Bologna, 2021. “Analysis of pluviometric regime in North and South Carolina”. Co-supervisor: Prof. Gregory J. Carbone.
- Tenti Bianca, master degree in Physics of the Earth System, University of Bologna, 2021. “Characteristics of warm spells and heat waves in Bologna”. Co-supervisor: Prof. Laura Tositti.
- Specchia Elisa, master degree in Physics of the Earth System, University of Bologna, 2021. “On the feasibility of seasonal forecast of air quality in Europe”. Co-supervisor: Dr. Paolo Ruggieri.

Co-supervisor of the following PhD theses:

- Francesca Di Nicola, PhD in Data Science and Computation, cycle 32, Dep. of Physics and Astronomy, “Urban air quality: new high-resolution modeling approaches and forecasting tools for citizens”, Supervisor: Prof. Silvana Di Sabatino

Co-supervisor of the following bachelor and master theses:

- Tullio Stefano, bachelor degree in Chemistry and Material Chemistry, Dep. Of Chemistry “G. Ciamician”, University of Bologna, “Analisi tramite cromatografia ionica di aerosol atmosferico in un sito della Sierra Nevada, Spagna”. Supervisor: Prof. Tositti Laura
- Laudicina Luana, bachelor degree in Chemistry, Dept. Of Chemistry “G. Ciamician”, University of Bologna, “Metodologie teoriche e sperimentali per la correzione dell’auto-assorbimento di fotoni gamma a bassa energia”. Supervisor: Prof. Tositti Laura
- Picchi Sara, master degree in Chemistry, Dept. Of Chemistry “G. Ciamician”, University of Bologna. “Analisi del particolato atmosferico tramite tecnica PIXE (Proton Induced X-ray emission). Supervisor: Prof. Tositti Laura.

CURRICULUM VITAE

BRATTICH ERIKA

- Sapienza Giulia, master degree in Geological Sciences. “Analisi geochimica e radiometrica dei suoli di Terni”. Supervisor: Prof. Enrico Dinelli.
- Messina Alessandro, master degree in Chemistry Dept. Of Chemistry “G. Ciamician”, University of Bologna. “Caratterizzazione ionica di aerosol atmosferico in due siti antropizzati dell’Italia settentrionale”. Supervisor: Prof. Laura Tositti.
- Barone Federica, master degree in Chemistry, Dept. Of Chemistry “G. Ciamician”, University of Bologna. “Aerosol ambientale primario e secondario in un’area costiera ligure: caratterizzazione chimico-fisica delle specie idro-solubili”, Supervisor: Prof. Laura Tositti
- Carboni Mattia, bachelor in Energy Engineering, Dept. of Engineering, University of Bologna. “Distribuzione di radionuclidi gamma emettitori in profili di suolo superficiale del territorio di Terni”, Supervisor: Prof. Ing. Domiziano Mostacci.
- Tombari Lorenzo, bachelor in Energy Engineering, Dept. of Engineering, University of Bologna. “Metodologie sperimentali e teoriche per la correzione dell’autoassorbimento di fotoni gamma a bassa energia”, Supervisor: Prof. Ing. Domiziano Mostacci
- Di Giglio Luis, bachelor in Energy Engineering, Dept. of Engineering, University of Bologna. “Fattori di correzione dell’attenuazione di fotoni gamma a bassa energia in matrici non acquose” Supervisor: Prof. Ing. Domiziano Mostacci
- Imburgia Giuseppe, bachelor in Energy Engineering, Dept. of Engineering, University of Bologna. “Distribuzione spaziale di radionuclidi nell’area euganea” Supervisor: Prof. Ing. Domiziano Mostacci

JOURNAL PUBLICATIONS

1. Tositti, L., Morozzi, P., Brattich, E., ...Summa, V., Caggiano, R., 2022. *Apportioning PM1 in a contrasting receptor site in the Mediterranean region: Aerosol sources with an updated sulfur speciation*. Science of the Total Environment, 851, 158127, doi: 10.1016/j.scitotenv.2022.158127
2. Berriban, I., Azahra, M., Chham, E., ...Brattich, E., Tositti, L., Piñero-García, F., El Bardouni, T., Ziani, H., El Yaakoubi, H., El Barbari, M., 2022. PSCF and CWT methods as a tool to

CURRICULUM VITAE

BRATTICH ERIKA

- identify potential sources of ^{7}Be and ^{210}Pb aerosols in Granada, Spain. *Journal of Environmental Radioactivity*, 251-252, 106977, doi: 10.1016/j.jenvrad.2022.106977
3. Hernández-Ceballos, M.A., Brattich, E., Ajtić, J., 2022. *Airflow and teleconnection patterns driving the spatial and temporal variability of high ^{7}Be air concentrations in Europe*. *Chemosphere*, 303, 135194, doi: 10.1016/j.chemosphere.2022.135194
 4. Di Nicola, F., Brattich, E., Di Sabatino, S., 2022. *A new approach for roughness representation within urban dispersion models*. *Atmospheric Environment*, 283, 119181, doi: 10.1016/j.atmosenv.2022.119181
 5. Tositti, L., Brattich, E., Cassardo, C., Morozzi, P., Bracci, A., Marinoni, A., Di Sabatino, S., Porcù, F., and Zappi, A., 2022. *Development and evolution of an anomalous Asian dust event across Europe in March 2020*, *Atmos. Chem. Phys.*, 22, 4047-4073, <https://doi.org/10.5194/acp-2021-429>
 6. Coletti, C., Ciotoli, G., Benà, E., Brattich, E., Cinelli, G., Galgaro, A., Massironi, M., Mazzoli, C., Mostacci, D., Morozzi, P., Mozzi, P., Nava, J., Ruggiero, L., Sciarra, A., Tositti, L., Sassi, R., 2022. *The assessment of local geological factors for the construction of a Geogenic Radon Potential map using regression kriging. A case study from the Euganean Hills volcanic district (Italy)*. *Science of the Total Environment* 808, 152064, doi: 10.1016/j.scitotenv.2021.152064
 7. Brattich, E., Liu, H., Zhang, B., Hernandez-Ceballos, M.A., Paatero J., Sarvan D., Djurdjevic V., Tositti, L., Ajtić, J., 2021. *Observation and modeling of high- ^{7}Be concentration events at the surface in northern Europe associated with the instability of the Arctic polar vortex in early 2003*. *Atmospheric Chemistry and Physics* 21(23), pp. 17927-17951, doi: 10.5194/acp-21-17927-2021
 8. Brattich, E., Barbano, F., Pulvirenti, B., Pilla, F., Bacchetti, M., Di Sabatino, S., 2021. *The effect of photocatalytic coatings on NO_x concentrations in real-world street canyons*, *Building and Environment*, 205, 108312, doi: 10.1016/j.buildenv.2021.108312
 9. Palladino, G., Morozzi, P., Biagi, E., Brattich, E., Turrone, S., Rampelli, S., Tositti, L., Candela, M., 2021. *Particulate matter emission sources and meteorological parameters*

CURRICULUM VITAE

BRATTICH ERIKA

- combine to shape the airborne bacteria communities in the Ligurian Coast, Italy*. Scientific Reports, 11, 175, doi:10.1038/s41598-020-80642-1
10. Morozzi, P., Bolelli, L., Brattich, E., Ferri, E.N., Girotti, S., Sangiorgi, S., Orza, J.A.G., Piñero-García, F., Tositti, L., 2021. *Chemiluminescent fingerprints from airborne particulate matter: A luminol-based assay for the characterization of oxidative potential with kinetical implications*. Science of the Total Environment 789,148005, doi: 10.1016/j.scitotenv.2021.148005
11. Morozzi, P., Ballarin, B., Arcozzi, S., Brattich, E., Lucarelli F., Nava, S., Gómez-Cascales P.J., Orza, J.A.G., Tositti, L., 2021. *Ultraviolet-Visible Diffuse Reflectance Spectroscopy (UV-Vis DRS), a rapid and non-destructive analytical tool for the identification of Saharan dust events in Particulate Matter filters*, Atmospheric Environment, 252, 118297, doi:10.1016/j.atmosenv.2021.118297
12. Barbano, F., Brattich, E., Di Sabatino, S., 2021. *Characteristic scales for turbulent exchange processes in a real urban canopy*. Boundary-layer meteorology, 178(1), 119-142, doi:10.1007/s10546-020-00554-5
13. Adnan, M., Outay, F., Ahmed, S., Brattich, E., Di Sabatino, S., Janssens, D., 2021. *Integrated agent-based microsimulation framework for examining impacts of mobility-oriented policies*. Personal and Ubiquitous Computing, 25(1), 205-217, doi: 10.1007/s00779-020-01363-w
14. Brattich E., Orza, J.A.G., Cristofanelli, P., Bonasoni, P., Marinoni, A., Tositti, L., 2020. *Advection pathways at the Mt. Cimone WMO-GAW station: seasonality, trends, and influence on atmospheric composition*. Atmospheric Environment, 234, 1-18, doi: 10.1016/j.atmosenv.2020.117513
15. Pulvirenti, B., Baldazzi, S., Barbano, F., Brattich, E., Di Sabatino, S., 2020. *Numerical simulation of air pollution mitigation by means of photocatalytic coatings in real-world street canyons*. Building and Environment, 186, 107348, doi:10.1016/j.buildenv.2020.107348
16. Tositti, L., Moroni, B., Dinelli, E., Morozzi, P., Brattich, E., Sebastiani, B., Petroselli, C., Crocchianti, S., Selvaggi, R., Goretti, E., Cappelletti, D., 2020. *Deposition processes over*

CURRICULUM VITAE

BRATTICH ERIKA

- complex topographies: experimental data meets atmospheric modeling*. Science of the Total Environment, 744, 140974, doi: 10.1016/j.scitotenv.2020.140974
17. Coletti, C., Brattich, E., Cinelli, G., Cultrone, G., Maritan, L., Mazzoli, C., Mostacci, D., Tositti, L., Sassi, R., 2020. *Radionuclide concentration and radon exhalation in new mix design of bricks produced reusing NORM by-products: the influence of mineralogy and texture*. Construction and Building Materials, 260, 119820, doi: 10.1016/j.conbuildmat.2020.119820
18. Di Sabatino, S., Barbano, F., Brattich, E., Pulvirenti, B., 2020. *The multiple-scale nature of urban heat island and its footprint on air quality in real urban environment*. Atmosphere, 11(11), 1186, doi: 10.3390/atmos11111186
19. Saranko, O., Fortelius, C., Jylhä, K., Ruosteenoja, K., Brattich, E., Di Sabatino, Nurni, V., 2020. *Impacts of town characteristics on the changing urban climate in Vantaa*. Science of the Total Environment, 727, 138471, doi: 10.1016/j.scitotenv.2020.138471
20. Brattich, E., Bracci, A., Zappi, A., Morozzi, P., Di Sabatino, S., Porcù, F., Di Nicola, F., Tositti, L., 2020. *How to get the best from low-cost particulate matter sensors: guidelines and practical recommendations*. Sensors, 20(11), 3073, doi: 10.3390/s20113073
21. Cinelli, G., Brattich, E., Coletti, C., De Ingeniis, V., Mazzoli, C., Mostacci, D., Sassi, R., Tositti, L., 2020. *Terrestrial gamma dose rate mapping (Euganean Hills, Italy): comparison between field measurements and HPGe gamma spectrometric data*. Radiation effects and defects in Solids, 175(1-2), 54-67, doi:10.1080/10420150.2020.1718131
22. Chham, E., Milena-Pérez, A., Piñero-García, F., Hernández-Ceballos, M.A., Orza, J.A.G., Brattich, E., El Bardouni, T., Ferro-García, M.A., 2019. *Sources of the seasonal-trend behaviour and periodicity modulation of ⁷Be air concentration in the atmospheric surface layer observed in southeastern Spain*. Atmospheric Environment, 213, 148 – 158, doi:10.1016/j.atmosenv.2019.06.011
23. Bianchi, S., Plastino, W., Brattich, E., Djurdjevic, V., Longo, A. Hernández-Ceballos, M. A., Sarvan, D., Ajtić, J., 2019. *Analysis of trends, periodicities, and correlations in the*

CURRICULUM VITAE

BRATTICH ERIKA

- beryllium-7 time series in Northern Europe*. Applied Radiation and Isotopes, 148, 160 – 167, doi:10.1016/j.apradiso.2019.03.038
24. Tiwari, A., Kumar, P., Baldauf, R., Zhang, K.M., Pilla, F., Di Sabatino, S., Brattich, E., Pulvirenti, B., 2019. *Considerations for evaluating green infrastructure impacts in microscale and macroscale air pollution dispersion models*. Science of the Total Environment, 2019, 672, 410-426, doi:10.1016/j.scitotenv.2019.03.350
25. Brattich, E., Serrano Castillo, E., Giulietti, F., Renard, J.-B., Tripathi, S. N., Ghosh, K., Berthet, G., Vignelles, D., Tositti, L., 2019. *Measurements of Aerosols and Charged Particles On the BEXUS18 Stratospheric Balloon*. Annales Geophysicae, 37, pp. 389 – 403, doi: 10.5194/angeo-37-389-2019
26. Ahmed S., Adnan M., Janssens D., Brattich E., Yasar A.-u.-H., Kumar P., Di Sabatino S., Shakshuki E. M., 2018. *Estimating pro-environmental potential for the development of mobility-based informational intervention: a data-driven algorithm*. Personal and Ubiquitous Computing, doi:10.1007/s00779-018-1187-5
27. Tositti L., Brattich E., Parmeggiani S., Bolelli L., Ferri E., Girotti S., 2018. “*Airborne particulate matter biotoxicity estimated by chemometric analysis on bacterial luminescence data*”. Science of the Total Environment 640-641, 1512-1520, doi:10.1016/j.scitotenv.2018.06.024
28. Chham E., Piñero-García F., Brattich E., El Bardouni T., Ferro-García M.A., 2018. “*⁷Be spatial and temporal pattern in southwest of Europe (Spain): Evaluation of a predictive model*.” Chemosphere 205, 194-202, doi:10.1016/j.chemosphere.2018.04.099
29. Ajtić J., Brattich E., Sarvan D., Djurdjevic V., Hernández-Ceballos M.A., 2018. “*Factors affecting the ⁷Be surface concentration and its extremely high occurrences over the Scandinavian Peninsula during autumn and winter*” Chemosphere 199, 278-285, doi:10.1016/j.chemosphere.2018.02.052
30. Tositti L., Pieri L., Brattich E., Parmeggiani S., Ventura F., 2018. “*Chemical characteristics of atmospheric bulk deposition in a semi-rural area of the Po Valley (Italy)*”. Journal of Atmospheric Chemistry 75(1), 97-121, doi: 10.1007/s10874-017-9365-9

CURRICULUM VITAE

BRATTICH ERIKA

31. Brattich E., Orza J.A.G., Cristofanelli P., Bonasoni P., Tositti L., 2017. “*Influence of stratospheric air masses on radiotracers and ozone over the central Mediterranean*” Journal of Geophysical Research Atmospheres doi:10.1002/2017JD027036
32. Brattich E., Liu H., Tositti L., Considine D.B., Crawford J.H., 2017. “*Processes controlling the seasonal variations in ^{210}Pb and ^7Be at the Mt. Cimone WMO-GAW global station, Italy: a model analysis*” Atmospheric Chemistry and Physics 17, 1061-1080, doi: 10.5194/acp-17-1061-2017
33. Ajtić J., Sarvan D., Djurđević V.S., Hernández-Ceballos M.A., Brattich E., 2017. *Beryllium-7 surface concentration extremes in Europe*. Facta Universitatis Series: Physics, Chemistry and Technology 15(1), 45-55, doi: 10.2298/FUPCT1701045A
34. Hernández-Ceballos M.A., Brattich E., Lozano R.L., Cinelli G., 2017. “ *^7Be behaviour and meteorological conditions associated with ^7Be peak events in Spain*” Journal of Environmental Radioactivity 166 (1), 17-26, doi:10.1016/j.envrad.2016.03.019
35. Tositti L., Cinelli G., Brattich E., Galgano A., Mostacci D., Mazzoli C., Massironi M., Sassi R., 2017. “*Assessment of lithogenic radioactivity in the Euganean Hills magmatic district (NE Italy)*”. Journal of Environmental Radioactivity 166, 259-269, doi:10.1016/j.envrad.2016.07.011
36. Brattich E., Hernández-Ceballos M.A., Orza J.A.G., Tositti L., 2016. “*The western Mediterranean as an aged aerosols reservoir. Insights from an old-fashioned but efficient radiotracer*”, Atmospheric Environment 141, 481-493, doi:10.1016/j.atmosenv.2016.07.022
37. Hernández-Ceballos M.A., Brattich E., Cinelli G., Ajtić J., Đurđević D., 2016. “*Seasonality of ^7Be concentrations in Europe and influence of tropopause height*” Tellus B, 68, 29354, doi:10.3402/tellusb.v68.29354
38. Hernández-Ceballos M.A., Brattich E., Cinelli G., 2016. “*Heat-wave events in Spain: Air mass analysis and Impacts on ^7Be concentrations*”, Advances in Meteorology, 2016, 8026018, doi:10.1155/2016/8026018

CURRICULUM VITAE

BRATTICH ERIKA

39. Masson O., Bieringer J., Brattich E., Dahleimer A., Estier S., Penev I., Ringer W., Schlosser C., Steinkopff T., Steinmann P., Tositti L., Van Beek P., de Vismes Ott A., 2016. “*Variation in airborne ^{134}Cs , ^{137}Cs , particulate ^{131}I and ^7Be maximum activities at high-altitude European locations after the arrival of Fukushima-labeled air masses*”, Journal of Environmental Radioactivity 162-163, 14-22, doi:10.1016/j.envrad.2016.05.004
40. Brattich E., Riccio A., Tositti L., Cristofanelli P., Bonasoni P., 2015. “*An outstanding Saharan dust event at Mt. Cimone (2165 m a.s.l., Italy) in March 2004*” Atmospheric Environment 113, 223-235, doi:10.1016/j.atmosenv.2015.05.017
41. Brattich E., Hernández-Ceballos M.A., Cinelli G., Tositti L., 2015. “*Analysis of ^{210}Pb peak values in Mt. Cimone (1998-2011)*” Atmospheric Environment 112, 136-147, doi:10.1016/j.atmosenv.2015.04.020
42. Cinelli G., Tositti L., Capaccioni B., Brattich E., Mostacci D., 2015. “*Soil gas radon assessment and development of a radon risk map in Bolsena, Central Italy*” Environmental Geochemistry and Health 37, 2, 305-319, doi:10.1007/s10653-014-9649-9
43. Cristofanelli P., Scheel H.E., Steinbacher M., Saliba M., Azzopardi F., Ellul R., Fröhlich M., Tositti L., Brattich E., Maione M., Calzolari F., Duchi R., Landi T.C., Marinoni A., and Bonasoni P., 2015. “*Long-term surface ozone variability at Mt. Cimone WMO/GAW Global Station (2165 m a.s.l., Italy)*”. Atmospheric Environment, 101, 23-33. doi:10.1016/j.atmosenv.2014.11.012
44. Tositti L., Brattich E., Masiol M., Baldacci D., Ceccato D., Stracquadanio M., Zappoli S., 2014. “*Source apportionment of particulate matter in a large city of southeastern Po Valley (Bologna, Italy)*”, Environmental Science and Pollution Research, 21, 872-890, doi:10.1007/s11356-013-1911-7.
45. Tositti L., Brattich E., Cinelli G., Baldacci D., 2014. “*12 years of ^7Be and ^{210}Pb data in Mt. Cimone and their correlation with meteorological parameters*”, Atmospheric Environment, 87C, 108-122, doi:10.1016/j.atmosenv.2014.01.014.
46. Tositti L., Riccio A., Sandrini S., Brattich E., Baldacci D., Parmeggiani S., Cristofanelli P.,

CURRICULUM VITAE

BRATTICH ERIKA

Bonasoni P., 2013. "*Short term climatology of PM10 at a high altitude background station in southern Europe*", Atmospheric Environment 65, 142-152, doi: 10.1016/j.atmosenv.2012.10.051

47. Tositti L., Brattich E., Cinelli G., Previti A., Mostacci D., 2012. "*Comparison of radioactivity data measured in PM10 aerosol samples at two elevated stations in northern Italy during the Fukushima event*", Journal of Environmental Radioactivity, 114, 105-112, doi:10.1016/j.jenvrad.2012.01.016

CONTRIBUTION in CONFERENCE ACTS/BOOKS

1. Achatz, M.; Ajtic, J.; Ballabio, C.; Barnet, I.; Bochicchio, F.; Borelli, P.; Bossew, P.; Braga, R.; Brattich, E.; Briganti, A.; Carpentieri, C.; Castellani, C.; Castelluccio, M.; Chiaberto, E.; Ciotoli, G.; Coletti, C.; Cucchi, A.; Daraktchieva, Z.; Di Carlo, C.; De France, J.; Dehandschutter, B.; Domingos, F.; Dudar, T.; Elio, J.; Falletti, P.; Ferreira, A.; Finne, I.; Fontana, C.; Fuente Merino, I.; Galli, G.; Garcia-Talavera, M.; German, O.; Grossi, C.; Gruber, V.; Gutierrez-Villanueva, J.; Hansen, M.; Hernandez Ceballos, M.; Hoffmann, M.; Hurst, S.; Iurlaro, G.; Ivanova, K.; Jobbagy, V.; Jones, A.; Kovalenko, G.; Kozak, K.; Lawley, R.; Lehné, R.; Lister, B.; Long, S.; Lucchetti, C.; Magnoni, M.; Matolin, M.; Mazur, J.; Mazzoli, C.; Mclaughlin, J.; Mollo, M.; Mostacci, D.; Mundigl, S.; Nesbor, D.; Neves, L.; Neznal, M.; Nikolov, J.; Nilsson, P.; Nogarotto, A.; Onischenko, A.; Orgiazzi, A.; Pacherová, P.; Panagos, P.; Pereira, A.; Perez, M.; Pokalyuk, V.; Pressyanov, D.; Quindós Poncela, L.; Ringer, W.; Rossi, F.; Sangiorgi, M.; Sassi, R.; Simic, Z.; Smedley, P.; Socciarelli, S.; Soligo, M.; Stoulos, S.; Szabo, K.; Täht-Kok, K.; Todorovic, N.; Tolton, R.; Tuccimei, P.; Turtiainen, T.; Tye, A.; Udovicic, V.; Vasilyev, A.; Venoso, G.; Verdelocco, S.; Verkhovtsev, V.; Voltaggio, M.; Zhukova, O. and Zhukovsky, M., 2019. *European Atlas of Natural Radiation*, Luxembourg, Publications Office of the European Union, pp. 195
2. Cristofanelli P., Brattich E., Decesari S., Landi T.C., Maione M., Putero D., Tositti L., Bonasoni P., 2018. High-Mountain Atmospheric Research. The Italian Mt. Cimone

CURRICULUM VITAE

BRATTICH ERIKA

- WMO/GAW Global Station (2165 m a.s.l.). SpringerBriefs in Meteorology, Springer International Publishing, doi: 10.1007/978-3-319-61127-3, ISBN: 978-3-319-61127-3
3. Di Sabatino S., Trini Castelli S., Brattich E., 2017. Harmonisation within atmospheric dispersion modelling for regulatory purposes 9-12 October 2017, Bologna, Italy. HARMO 2017 – 18th International Conference on Harmonisation within Atmospheric Dispersion Modelling for regulatory purposes, Proceedings, pp. 3-4
 4. Brattich E., Tositti L., Orza J.A.G., Liu H., Hernández-Ceballos M.A., Cinelli G., 2016. “Applications of environmental radionuclides to atmospheric studies at the WMO-GAW station of Mt. Cimone”. In: Proceedings of the International Conference on Environmental Radioactivity ENVIRA 2015: New Challenges with New Analytical Techniques, 83-86, Ioannidou A., Povinec P.P. (eds.), Aristotle University of Thessaloniki, ISBN:978-618-82725-0-7
 5. Ajtić J., Djurdjevic V., Sarvan D., Brattich E., Hernández-Ceballos M.A., 2016. “Analysis of extreme beryllium-7 specific activities in surface air” Radiation & Applications 1(3), 216-221, doi:10.21175/RadJ.2016.03.040, ISSN 2466-4294
 6. Ajtić J., Djurdjevic V., Sarvan D., Brattich E., Hernández-Ceballos M.A., 2016. “Beryllium-7 specific activity in surface air and its correlation with meteorological variables, solar zenith angle, and number of sunspots”. In: RAD2016 Conference Proceedings Vol.1, 79-83, doi:10.21175/RadProc.2016.19, ISSN 2466-4626
 7. Serrano Castillo E., Brattich E., Lasagni Manghi R., Tositti L., Giulietti F., 2015. A5-UNIBO Experiment onboard BEXUS18: a research on aerosols and cloud formation. In: Proceedings of the 22nd ESA Symposium on European Rocket and Balloon Programmes and Related Research, Tromsø, Norway, 7-12 June 2015 (ESA SP-730, September 2015). ISBN 978-92-9221-294-1, ISSN 1609-042X
 8. Tositti L., Brattich E., Cinelli G., 2013. Aerosol characterization at the WMO-GAW station of Mt. Cimone (2165 m a.s.l.) by ⁷Be, ²¹⁰Pb and PM10. In: Isotopes in Hydrology, Marine

CURRICULUM VITAE

BRATTICH ERIKA

- Ecosystems and Climate Change Studies. Proceedings of an International Symposium Monaco, 27 March-1 April 2011, Vol.1, 387-393, International Atomic Energy Agency, Vienna 2013. ISBN 978-92-0-135610-9 .
9. Tositti L., Mostacci D., Brattich E., Cinelli G., Previti A., Sandrini S., Baldacci D., Parmeggiani S., 2013. Serie temporali di gamma emettitori in matrici atmosferiche (PM10 e Bulk deposition) in stazioni in quota dell'Emilia-Romagna. Atti del convegno "Chernobyl 25 anni dopo: studi, riflessioni e attualità" 21-22-23 June 2011, Udine (Italy), organised by ARPA FVG. ISBN 978-88-88735-16-0 (in Italian)
10. Tositti L., Brattich E., Canducci C., Parmeggiani S., 2010. Progetto Regione Emilia Romagna Monitor. Speciazione ionica del particolato. Bologna, Regione Emilia Romagna, pp.161 (in Italian, book).

BIBLIOMETRIC INDICES

Source / Tot publications / Tot citations / H-index

ISI WoS / 44 / 457 / 12

Scopus / 44 / 498 / 13

GoogleScholar / 43 / 691 / 14

IDENTIFIERS

ORCID: 0000-0001-8402-7611

ISI WoS Researcher ID: D-5127-2018

Scopus Author ID: 54987301800

HONORS AND AWARDS

2018

Publons: top reviewers for Environment/Ecology

2017

Publons: top reviewers for University of Bologna

CURRICULUM VITAE

BRATTICH ERIKA

2014

Doctor Europaeus title

2011

Special Prize “Inquinamento zero” (“Zero pollution”) at the master thesis contest ICU Laura Conti (master thesis)

2007

2nd prize at the CINFAI contest for bachelor and master’s thesis in honor of Prof. Gianpietro Puppi at the FAI congress in Ischia, “Convegno nazionale di Fisica della Terra Fluida e Problematiche Affini” (bachelor thesis)

RESEARCH PROJECTS

2011-2012 [MONITER](#): Monitoring of the waste incinerators in the Emilia-Romagna region, project funded from Emilia-Romagna Region and Regional Environmental Protection Agency of Emilia-Romagna (ARPA-EMR)

2012-present: Environmental impact assessment of the atmospheric emissions from three coal-fired power plants and one coke plant in different Italian sites: technical consultancies for state attorneys (environmental forensic)

2013-2015 [A5-UNIBO](#): Advanced Atmospheric Aerosol Acquisition and Analysis, team selected to participate in the 2013/2014 REXUS/BEXUS (Rocket and Balloon Experiments for University Students) campaign organized jointly by the German Aerospace Center (DLR) and the Swedish

CURRICULUM VITAE

BRATTICH ERIKA

National Space Board (SNSB), in collaboration with European Space Agency (ESA) -

REXUS/BEXUS - Rocket and Balloon Experiments for University Students

2015-current [FRESA](#): Impacto de las intrusiones de masas de aire con polvo africano y de masas de aire estratosférico en la Península Ibérica. Influencia de El Atlas, Spanish national project on the impact of dust-laden African air masses and stratospheric air masses on the Iberian Peninsula.

2017-2019 [iSCAPE](#): Improving the Smart Control of Air Pollution in Europe, H2020 European research and innovation project working on integrating the control of air quality and carbon emissions in European cities in the context of climate change through the development of sustainable and passive air pollution remediation strategies, policy interventions and behavioral change initiatives. Co-leadership of WP6 on model simulations in present and future scenario.

2021-current [I-CHANGE](#): Individual Change of Habits Needed for Green European transition. H2020 Innovation Action in support of the European Green Deal faces the challenge of engaging and promoting the active participation of citizens for addressing climate change, sustainable development and environmental protection in the framework of the European Green Deal, the European Climate Pact and the European Biodiversity Strategy for 2030. The overall driving concept is that citizens and civil society have a central role in the definition of environmental protection and climate action and their direct involvement is essential to drive a true shift and promotion of changes of behaviors towards more sustainable patterns. Co-Leadership of WP3 “Enhancing monitoring opportunities through citizen science”, which aims to organize a series of citizen science initiatives to raise awareness on climate action and to motivate the engagement of citizen scientists by improving the observation of the environment and environmental impacts.

Starting September 2022 TRIGGER: Solutions for Mitigating climate-induced health threats. Horizon Europe Research and Innovation project providing exploitable tools to strengthen

CURRICULUM VITAE

BRATTICH ERIKA

surveillance mechanisms and risk assessment, to translate robust evidence of climate-environment-health relationships into actionable information and guidelines, to identify and prioritise cost-effective policies and actions.

CONFERENCE and POSTER PRESENTATIONS

5 July 2022

Oral presentation: “The aerosol measurements during the BEXUS18 Kiruna flight”, HEMERA Workshop, Rome and online, 4-6 July 2022

18-20 May 2022

Poster presentation: “Esposizione dei beni culturali a una troposfera che cambia: sfide e linee guida per la progettazione di test di invecchiamento artificiale”, PM2022, Bologna, 18-20 maggio 2022

3 September 2021

Oral presentation: “An outstanding mineral dust transport from Aralkum desert to northern Italy” European Aerosol Conference (EAC) 2021, virtual event

8 November 2019

Oral presentation: “iSCAPE case studies: Key learnings and recommendations”
iSCAPE final event, Dublin, Ireland

26 September 2019

Oral presentation: “Evaluation of different mitigation strategies of air pollution in European cities and climate change scenarios”

Poster presentation: “The use and performance of low-cost sensors for monitoring of various PM size fractions”

2° Congresso Nazionale AISAM, Napoli, Italy

10 December 2018

CURRICULUM VITAE

BRATTICH ERIKA

Citizen Science Workshop 2, Understand your data

Department of Physics and Astronomy, University of Bologna, Italy

15 November 2018

Citizen Science Workshop 1, Sensing your city

Department of Physics and Astronomy, University of Bologna, Italy

10-13 September 2018

Poster presentation: “Sul ruolo degli urban street canyons: studio della qualità dell’aria nella città metropolitana di Bologna”

Poster presentation: “Influence of synoptic meteorological conditions on particle size distribution collected in two urban street canyons in the city of Bologna”

Poster presentation: “On the use of radon as atmospheric tracer to constrain atmospheric transport”

1° Congresso Nazionale AISAM, Bologna, Italy

4-9 September 2016

Poster presentation: “Detection of charged aerosols during the Bexus18 stratospheric flight: main results and open questions”

EAC 2016 (European Aerosol Conference), Tours, France

25 July 2016

Seminar: “Applications of Environmental Radionuclides ^{210}Pb and ^7Be to Atmospheric Studies at the WMO-GAW Station of Mt. Cimone (2165 m a.s.l., Italy)”, NIA, Hampton (VA), USA.

21-25 September 2015:

Oral presentation: “Seasonality of ^7Be concentrations in Europe and influence of tropopause height”

Oral presentation: “Applications of environmental radionuclides to atmospheric studies at the WMO-GAW station of Mt. Cimone”

CURRICULUM VITAE

BRATTICH ERIKA

Poster presentation: “Eight years of ^{210}Pb concentrations monitoring at two sites in the Mediterranean region: seasonality and identification of potential sources”
ENVIRA2015, International Conference Environmental Radioactivity, Thessaloniki, Greece

6-11 September 2015:

Poster presentation: “Ambient particulate source apportionment in a complex topography coastal area in NW Italy”

Poster presentation: “A5-UNIBO: an experiment on aerosols and cloud formation on-board Bexus 18 stratospheric balloon”

EAC 2015 (European Aerosol Conference, Milano, Italy)

29 June-July 2015:

Oral Presentation: “Atmospheric aerosol measurements at the WMO-GAW station of Mt. Cimone (2165 m a.s.l., Italy)”

Poster presentation: “The A5-UNIBO experiment on-board Bexus 18 stratospheric balloon”

RICTA 2015, 3rd Iberian Meeting on Aerosol Science and Technology, Elche, Spain

7-12 June 2015:

Oral presentation: “A5-Unibo experiment onboard BEXUS18: a research on aerosols and cloud formation”

22nd ESA PAC Symposium on European Rocket and Balloon Programmes and Related Research, Tromsø, Norway

20-23 May 2014:

Poster: “Aerosol atmosferico alla stazione WMO-GAW di Mt. Cimone (2165 m asl)”

Sesto Convegno Nazionale sul Particolato Atmosferico PM2014, Genova, Italy

2-4 December 2013

CURRICULUM VITAE

BRATTICH ERIKA

Poster: “An outstanding Saharan Dust event at Mt. Cimone (2165 m a.s.l., Italy) in March 2004, 7th International Workshop on Sand/Duststorms and Associated Dustfall, ESA-ESRIN, Frascati (Rome), Italy.

21 March 2013

Seminar: “Caratterizzazione chimico-fisica di aerosol atmosferico in un’area costiera ligure”, Department of Geological and Earth Sciences, University of Bologna, Bologna, Italy.

20 February 2013

Seminar: “Atmospheric radiotracers, ozone and particulate matter at the WMO-GAW station of Mt. Cimone (Italy)”, NIA, Hampton (VA), USA.

27 September 2012

Seminar: "Dal deserto all’atmosfera: la polvere minerale" Department of Geological and Earth Sciences, University of Bologna, Italy.

06-08 June 2012

Poster: “Environmental chemistry and Radioactivity Lab, University of Bologna: Research activity and fields of investigation”, Multidisciplinary Applications of Nuclear Physics with Ion Beams, Legnaro (PD), Italy.

16-18 March 2012

Poster: “Anioni, cationi e frazioni carboniose in campioni di PM_{2.5} e PM₁ raccolti in prossimità di un impianto di incenerimento rifiuti situato in provincia di Bologna”, Quinto Convegno Nazionale sul Particolato Atmosferico PM2012, Perugia, Italy.

21 October 2011

Presentation: “The use of statistical techniques in the study of environmental problems: from data

CURRICULUM VITAE

BRATTICH ERIKA

classification to ambient aerosol source apportionment”, Legnaro (PD), Italy

20 October 2011

Seminar: “L’arrivo della nube radioattiva di Fukushima in Emilia-Romagna”, Department of Geological and Earth Sciences, University of Bologna (BO), Italy.

23 September 2011

Instant lab at the European Researchers Night, Bologna (BO), Italy, “Radon a Bologna? Siamo radioattivi?”

21-23 June 2011

Poster: "Serie temporali di gamma emettitori in matrici atmosferiche (PM10 e bulk deposition) in stazioni in quota dell’Emilia-Romagna." Chernobyl 25 anni dopo: studi, riflessioni, attualità” Conference, Udine (UD), Italy.

27 March-01 April 2011

Poster: "Aerosol characterization at the WMO-GAW station of Mt. Cimone (2165 m asl) by Be-7, Pb-210 and PM10", IAEA International Symposium on Isotopes in Hydrology, Marine Ecosystems, and Climate Change Studies, Monaco Montecarlo.

COURSES and WORKSHOPS (attended)

27 February-01 March 2018

Introduction to the EMIT and ADMS-TH software

Cambridge Environmental Research Consultants, Cambridge, UK

November 2016- May 2017

CV Brattich Erika

CURRICULUM VITAE

BRATTICH ERIKA

Health and security formation course, c/o UNIBO (online and Dep. Of Chemistry “G. Ciamician”)

Module I. General formation

Module II. Specific formation – Part I

Module III. Specific formation – Part III

10 March 2016

"Light absorbing carbon from combustion sources and its effect on health and climate" Prof. Judith Chow (Desert Research Institute, Nevada System of Higher Education, Reno, Nevada, USA) & “Receptor model source apportionment for air quality management”, Prof John G. Watson (Desert Research Institute, Nevada System of Higher Education, Reno, Nevada, USA), c/o Dipartimento di Fisica, Università di Genova (Italia)

03-10 July 2013

Summer school “Basic Aerosol Science”, University of Vienna, Faculty of Physics – Aerosol and Environmental Physics, Vienna (Austria)

10-15 June 2013

Second school of the Italian Aerosol Society, ARPA EMR Rimini (Italy)

24 April 2013

Workshop “Mathematics of Planet Earth, Land, Sea and Air”

Universidad de Castilla-La Mancha, Facultad de Ciencias y Tecnologías Químicas, Ciudad Real (Spain)

28-29 June 2012

Workshop ELETTRA “La luce di sincrotrone: caratteristiche e applicazioni”

Laboratori ELETTRA, Trieste (Italy)

CURRICULUM VITAE

BRATTICH ERIKA

13 June 2012

SEM, theory and applications, Dr. Fabrizio Tarterini

X-ray absorption spectroscopy, Dr. Marco Giorgetti

Department of Industrial Chemistry, Università di Bologna, Bologna (Italy)

March-June 2012

Numerical methods for Atmosphere and Oceans, Prof. Fedor Mesinger, Bologna, CMCC (Italy)

09 January-10 February 2012

European Research Course on the Atmospheres, ERCA, Grenoble (France)

17, 21, 24 October-11, 14 November 2011

Robust statistical methods, Dr. Christian Hennig (UCL), Dr. Andrea Cerioli (Università di Parma),

Dr. Francesca Torti (Università di Milano Bicocca), Bologna, Università di Bologna (Italy)

27 September 2011

Workshop “Black carbon and organic carbon: State of the art and issues for environmental policy”

CNR Bologna (Italy)

23-25 March 2011

Statistical methods for the environmental sciences, Dr. Simone Russo (IFREMER), Department of Environmental Sciences, Ravenna, Università di Bologna (Italy)

04 February 2011

XRF and spectrometry, Dr. Eugenio Casini (PANALYTICAL), Bologna, Università di Bologna (Italy)

CURRICULUM VITAE

BRATTICH ERIKA

ORGANISATION OF SCIENTIFIC MEETINGS

Chair of the X Convegno Nazionale sul Particolato Atmosferico PM2022, May 18-20, 2022, session "Qualità dell'aria nelle aree urbane"

Program Committee of the 13th International Conference on Ambient Systems, Networks and Technologies, March 22 - 25, 2022, Porto, Portugal, Track Chair Smart Cities and Climate Change Management

Member of the Scientific Committee of the conference "4° Congresso Nazionale AISAM", Milano, 14-18 febbraio 2022

Member of the Scientific Committee of the conference "3rd Conference of the Arabian Journal of Geosciences (CAJG)", online event, 2-5 November 2020

Track Chair of the conference "ANT 2019 The 10th International Conference on Ambient Systems, Networks and Technologies, April 29 - May 2, 2019, Leuven, Belgium", Track Smart Cities and Climate Change Management

Member of the Local Organizing Committee of the conference "1° Congresso Nazionale AISAM", 10-13 September 2018, Bologna, Italy

Member of the Local Organizing Committee of the iSCAPE mid-term event: "Urban air quality: designing and implementing effective control strategies", 10 May 2018, Bologna, Italy

Member of the Local Organizing Committee of the iSCAPE dissemination evento "Qualità dell'aria urbana: pianificazione e coinvolgimento dei cittadini", 11 May 2018, Bologna, Italy

Member of the Organizing Scientific Committee of the conference "Come osservare l'atmosfera:

CURRICULUM VITAE

BRATTICH ERIKA

metodi, strumenti, misure”, Quinto Congresso di Orientamento alla Fisica dell’Atmosfera, Meteorologia, Climatologia, 02 March 2011, Dept. of Physics, University of Bologna, Italy

REVIEWING ACTIVITIES

1. Science of the Total Environment
2. Environmental Fluid Mechanics
3. Environmental Pollution
4. Atmospheric Chemistry and Physics
5. Environment International
6. Environmental Science and Pollution Research
7. Annales Geophysicae
8. Atmospheric Measurement Techniques
9. Atmospheric Research
10. Bulletin of Atmospheric Science and Technology
11. Atmosphere
12. Atmospheric Pollution Research
13. Regional Environmental Change
14. Geoscientific Model Development
15. Building and Environment
16. Advances in Meteorology
17. International Journal of Environment and Pollution
18. Earth and Space Science
19. Journal of Atmospheric and Solar-Terrestrial Physics
20. Sensors
21. Weather, Climate, and Society
22. International Journal of Environmental Research and Public Health
23. Toxicological and Environmental Chemistry
24. Sustainability

CURRICULUM VITAE

BRATTICH ERIKA

25. Data in Brief
26. Sustainable Cities and Society
27. Arabian Journal of Geosciences
28. Chemosphere
29. Journal of Environmental Radioactivity
30. Journal of Radioanalytical and Nuclear Chemistry

MEMBERSHIP OF SCIENTIFIC SOCIETIES

2017-present: Member of the Italian Association of Atmospheric Sciences and Meteorology (AISAM).

2011-present: Member of the Italian Aerosol Society (IAS), WG1 Sources and environmental impact of aerosols.

FOREIGN LANGUAGES SKILLS

Foreign languages: English (excellent knowledge), French (good knowledge), German (scholastic knowledge)

COMPUTER SKILLS

Programming Languages: IDL, R , Matlab, C++

Operating system: MS Windows, MAC

Software: MS Office (Word, Excel, Powerpoint), LateX, Statistica, EPA PMF, EPA UNMIX, EPA CMB, Origin, SPSS, Corel Draw, Adobe Illustrator

Emission inventories with CERC EMIT tool

Dispersion modeling through ADMS-Urban

Elaboration of the output from NASA GMI and GEOS-Chem Chemistry and Transport Models

CURRICULUM VITAE

BRATTICH ERIKA

through IDL programming language

GIS modeling with ArcGis and Surfer programs

Use of Lagrangian trajectory models (most of all Hysplit)

Good statistical knowledge: multivariate statistical analyses, source apportionment and receptor modeling (principal component analysis and multilinear regression (PCA/MLRA), EPA PMF, EPA Unmix, EPA CMB)

OTHER

Referee for the Italian Research Quality Assessment “VQR 2015-2019”: GEV2, GEV4, GEV8b, GEV9

Assistant editor of the Proceedings of HARMO18, Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, 9-12 October 2017, Bologna, Italy

PROFESSIONAL REFERENCES

Silvana Di Sabatino, Full Professor

University of Bologna, Department of Physics and Astronomy, Via Irnerio 46, 40126 Bologna (BO), ITALY, +39-(0)512095215

Silvana.disabatino@unibo.it

Laura Tositti, Associate Professor

University of Bologna, Department of Chemistry, Via Selmi 2, 40126 Bologna (BO), ITALY
+39-(0)512099488

laura.tositti@unibo.it

CURRICULUM VITAE

BRATTICH ERIKA

José Antonio Garcia Orza, Associate Professor

University Miguel Hernandez of Elche, Department of Physics Avenida de la Universidad s/n Edif.

Alcudia, 03202, Elche, SPAIN

(+34) 96 665 8580

ja.garcia@umh.es

Hongyu Liu, Associate Research Fellow

National Institute of Aerospace (NIA), Resident at NASA Langley Research Center, Mail Stop

401B, Hampton, VA, 23681 USA

(757) 864-3191

HONGYU.LIU-1@NASA.GOV

Roberto Barbieri, Full Professor

University of Bologna, Department of Biological, Geological and Environmental Sciences, Piazza

di Porta San Donato 1, 40126 Bologna (BO), ITALY

+39-(0)512094575

roberto.barbieri@unibo.it

Angelo Riccio, Researcher in Physical Chemistry

University of Napoli "Parthenope", Dept. of Applied Science, Centro Direzionale, Isola C4

80143, Napoli (Italy)

+39 081 547661

angelo.riccio@uniparthenope.it

Miguel Angel Hernández-Ceballos, Assistant Professor

Universidad de Cordoba, Departamento de Fisica

f92hecem@uco.es

CURRICULUM VITAE
BRATTICH ERIKA

Giorgia Cinelli, PhD, Post-Doctoral Researcher

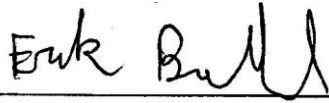
Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile (ENEA),

Laboratorio di Osservazioni e Misure per l'ambiente e il clima, Palermo, Sicilia, Italy

giorgia.cinelli@enea.it

Bologna, 1/8/2022

FIRMA

A handwritten signature in black ink, appearing to read "Erika Brattich", is written over a horizontal line.