Chiara Razzetta

Curriculum Vitae

Contacts

Address, *Via Dodecaneso 35, 16146 Genova, Italy*
Mobile, *347 3079214*
Email, *razzetta@dima.unige.it*

Current Position

2/11/2023-
Now

"Assegnista di ricerca", *DIMA - University of Genoa*, Genova, PNRR RAISE - Robotics and AI for Socio-economic Empowerment
Supervisor: Michele Piana

Education

1/11/2020-
31/10/2023

PhD candidate in Mathematics and Applications, *University of Genoa*, Genova, Supervisors: Prof. Federico Benvenuto, Marco Crocco Ph.D.

Software development

2022-2023

parUST (parallel parametric UltraSound Transmission software)
`https://github.com/chiararazzetta/parUST`

Talks and Presentations

Lectures at international schools

2023 **Winter PhD school on Advanced methods for mathematical image analysis**, *Bologna*, Title:"Ultrasound Biomedical Imaging: improve image quality by automatically optimizing parameters"

Invited Talks

2023 **Dolomites Research Week on Approximation and Applications**, *San Vito di Cadore*, Title: "Delay and Sum beamforming Point Spread Function: local invariance and its consequences .

2023 **International Congress of Industrial and Applied Mathematics (ICIAM23)**, *Tokyo*, Title: "A local space-invariant approximation for DAS Point Spread Function calculation".

2023 **The Artimino conference on Medical Ultrasound Technology**, *Artimino*, Title: "Stochastic approach for automatic optimisation of acquisition parameters for Point Spread Function enhancement"

| 2022 | **GIMC-SIMAI YOUNG 2022**, *Pavia*, Title:"Biomedical Ultrasound Beam Patterns Optimization: from a stochastic approach to neural networks" |

Contributions in Conferences and Seminars

| 2023 | **SIAM Conference on Computational Science and Engineering**, *Amsterdam*, Poster:"A stochastic approach to delays optimization for narrowband transmit beam pattern in medical ultrasound" |
| 2022 | **14th IEEE EMBS-SPS International Summer School on Biomedical Imaging**, *St. Jacut de la Mer*, Poster:"A stochastic approach to transmit delays optimization: enhancing narrowband applications in medical ultrasound" |

Teaching and Tutoring Experiences

Teaching

A.A. 2022/23	**Adjunct Professor**, *DIMA-UniGe*, Mini-Course, Ultrasound Biomedical Imaging: model and applications
A.A. 2022/23	**Adjunct Professor**, *DICCA-UniGe*, Course, Elements of Mathematics and Geometry for Technical Occupations
A.A. 2021/22	**Teaching Assistant**, *DIBRIS-UniGe* Exercise sessions and teaching support for Algebra and Logics for Informatics course

Tutoring

A.A. 2021/22 - A.A.2022/23	**Tutor**, *DIMA-UniGe*, Scientific tutor for high school students at the Mathematics stage giving a lesson on mathematics applications.
A.A. 2022/23	**Tutor**, *DISTAV-UniGe*, Tutor for first year students in Elements of Mathematics Course
A.A. 2021/22	**Tutor**, *DICCA-UniGe*, Tutor for second year students Mathematical Analysis 2 Course

Memberships

| 2021-now | Gruppo Nazionale per il Calcolo Scientifico - Istituto Nazionale di Alta Matematica (INdAM-GNCS) |

Computer skills

OS	Microsoft Windows, MacOS, Linux
Programming	Python, Matlab, C++, R, SAS, SQL, LaTeX
Experience	Office, PostgreSQL, PyTorch

Languages

| Italian | Mothertongue |
| English | Professional Level |

[1]

I give consent to process my data with the purpose of the recruitment process, in accordance to the Regulation of the European Parliament 679/2016, regarding the protection of natural persons and free movement of such data.