

Alessandro Viani

Curriculum Vitae

Via Camillo Finocchiaro Aprile 2
Genoa, Italy 16129
☎ +39 349 6790495
✉ viani@dima.unige.it
📄 dima.unige.it/viani



Education

- 11/2020–Today **PhD in Mathematics and Applications**, [University of Genoa](#), DIMA, GE, Italy,
Supervisor Professor Alberto Sorrentino.
- 09/2017–09/2019 **Master Degree in Mathematics**, [University of Genoa](#), GE, Italy,
final grades-110/110 cum Laude.
- 09/2014–09/2017 **Bachelor Degree in Mathematics**, [University of Genoa](#), GE, Italy.
- 09/2009–06/2014 **High School Diploma**, [Liceo Scientifico Statale Leonardo da Vinci](#), GE, Italy.

Masters Thesis

Title *Hyperprior in Sequential Monte Carlo algorithms for Inverse Problems*
Supervisor Professor Alberto Sorrentino

Bachelor Thesis

Title *Proximal Algorithms*
Supervisor Professor Alberto Sorrentino

Publications

- 12/2022 **Alessandro Viani, Adam M. Johansen and Alberto Sorrentino**, *Cost free hyper-parameter selection/averaging for Bayesian inverse problems with vanilla and Rao-Blackwellized SMC Samplers*. Preprint, arXiv:2212.12205
- 10/2022 **Alessandro Viani, Gianvittorio Luria and Alberto Sorrentino**, *Non-uniform spatial priors for multi-dipole localization from MEG/EEG data*. IEEE International Conference on E-health Networking, Application & Services (HealthCom), pages 149-154, year 2022
- 02/2021 **Alessandro Viani, Gianvittorio Luria, Harald Bornfleth and Alberto Sorrentino**, *Where Bayes tweaks Gauss: Conditionally Gaussian priors for stable multi-dipole estimation*. Inverse Problems & Imaging, volume 15, number 5, pages 1099-1119, year 2021

Work Experiences

- 09/2022–Today **Assistant Professor**, [University of Genoa](#), GE, Italy.
Assistant Professor of Analysis I for IT department
- 09/2022–Today **Tutor**, [University of Genoa](#), GE, Italy.
Assistant Professor of Analysis II for Math department
- 06/2021–Today **Bayesian Estimation for Engineering Solutions (BEES) SRL**, *Chief Financial Officer, Co-founder and shareholder.*
- 09/2021–09/2022 **Assistant Professor**, [University of Genoa](#), GE, Italy.
Assistant Professor of Numerical Analysis for IT department
- 09/2021–09/2022 **Tutor**, [University of Genoa](#), GE, Italy.
Tutor of Mathematical Analysis and Algebra for Engineering department
- 09/2019–08/2020 **Teacher**, [Istituto di Istruzione superiore Carlo Barletti](#), AL, Italy.
Teaching math and physics to scientific high school students

- 06/2019–09/2019 **Erasmus Traineeship Software Developer**, [BESA GmbH](#), Grafelfing, Munich, Germany.
Development for a commercial software of a bayesian method for neuroimaging focused on the reconstruction of brain activity
- 03/2019–05/2019 **Data Scientist**, [Costa Crociere S.p.A.](#), GE, Italy.
Development of a correlation model for KPIs Onboard Revenue
- 09/2019–04/2019 **Tutor**, [University of Genoa](#), GE, Italy.
Tutor of Mathematical Analysis and Algebra for IT department

Talks, Courses and Posters contribution

- 13-16/02/2023 **Talk**, *Open week*, [University of Genoa](#), Genoa, Italy.
- 08-10/02/2023 **Invited Speaker**, [BMW's Bayesian Meets Wavelets in space and time](#), Marseille, France.
- 17-19/10/2022 **Talk**, [IEEE International Conference on E-health Networking, Application & Services](#), Genova, Italy.
- 18-22/09/2022 **Organizer**, [Young Applied Mathematicians Conference \(II edition\)](#), Arenzano, Genova, Italy.
- 28-31/08/2022 **Poster**, [Biomag 2022](#), Birmingham, United Kingdom.
- 22-28/05/2022 **Talk**, [Inverse Problems: Modeling and Simulations \(IPMS\)](#), Mellieha, Malta.
- 04-06/05/2022 **Poster**, [5th Workshop on Sequential Monte Carlo Methods](#), Madrid, Spain.
- 14-17/02/2022 **Talk**, *Open week*, [University of Genoa](#), Genoa, Italy.
- 4-5/01/2022 **Invited Speaker**, [Finnish Mathematical Days 2022](#), Tampere University, Tampere, Finland.
- 14-16/12/2021 **Invited Speaker**, [Inverse Days](#), Tampere University, Tampere, Finland.
- 04-07/10/2021 **Poster**, [Cutting EEG](#), Aix-En-Provence, France.
- 17/09/2021 **Course**, [Young Applied Mathematician Conference \(YAMC\)](#), Santa Maria di Leuca, Italy.
- 13/09/2021 **Talk**, [Young Applied Mathematician Conference \(YAMC\)](#), Santa Maria di Leuca, Italy.
- 27-28/05/2021 **Poster**, [Bayesian inference in Stochastic Processes \(BISP\)](#), Online event.
- 13-16/04/2021 **Talk**, [Noninvasive Mathematics](#), Online event.

Conferences, workshops, schools and courses attended

- 04/2021-06/2021 **Course**, [Bayesian Statistical Theory II](#), Bocconi University, Milan, Italy.
- 02/2021-04/2021 **Course**, [Bayesian Statistical Theory I](#), Bocconi University, Milan, Italy.
- 03/2021-05/2021 **Course**, [Topics in the Calculus of Variations: Optimal Transport](#), [University of Genoa](#), Genoa, Italy.
- 03/2021-05/2021 **Course**, [Martingales and Brownian Motion](#), [University of Genoa](#), Genoa, Italy.
- 25-29/01/2021 **School**, [Inverse Problems in partial differential equations and geometry \(IPwin2021\)](#), Technical University of Denmark, Copenhagen, Denmark.
- 12/2020-07/2021 **Reading Group**, ["An Introduction to Sequential Monte Carlo"](#), [University of Genoa](#), Genoa, Italy.

Skills

- Well known MATLAB, C++, PYTHON
- Average known JAVA, C, VISUALSTUDIO
- Basic known PANDAS, SQL, XCODE

Languages

- Italian **Mother tongue**
- English **B2, CLAT 2019**