



# MIRKO TRECCANI

PHD STUDENT - UNIVERSITY OF VERONA

Dedicated PhD student in life and health sciences focusing on genomic investigation of human complex diseases using bioinformatic approaches. Skilled in genome-wide association studies, risk score modelling and genotype imputation. Striving to drive progress and advance knowledge in my field.

## CONTACT

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## SKILLS

NGS data analyses (WGS and WES)  
Genotype imputation  
Genome-wide association studies  
Polygenic risk score  
High-performance computer  
Bash and R programming

## PROJECTS

EGPA and vasculitis  
Electrolyte imbalances in kidneys  
CKDGen International consortium  
BioVRPi

## LANGUAGE

Italian (native speaker)  
English (B2 certified)

## ROLES

2022-present: RSG Italy's President  
2022-present: Academic Senate  
2022-present: Student Council  
2021-2023: PhD School Board

## EDUCATION

- 2020 - Present **PhD in Applied Life and Health Sciences**  
University of Verona  
Project: Genomic approaches for complex diseases analysis  
Advisor: Prof. Giovanni Malerba
- 2018 - 2020 **MSc in Molecular and Medical Biotechnology**  
University of Verona  
Thesis: *Exome sequencing in an Italian sample of ANCA-associated vasculitides*  
Supervisor: Prof. Giovanni Malerba
- 2015 - 2018 **BSc in Bioinformatics**  
University of Verona  
Thesis: *GCAP1 dimer modelling via docking simulation*  
Supervisor: Prof. Daniele Dell'Orco

## RESEARCH EXPERIENCE

- 2020 - Present **PhD student**  
University of Verona  
Genomic analysis of human complex diseases  
Pi platform for bioinformatics (BioVRPi project)  
Bioinformatics lesson for BSc and MSc students  
Trainee students mentor and thesis co-advisor
- 2019 - 2020 **MSc traineeship**  
University of Verona  
WES analysis of Italian EGPA patients
- 2018 - 2018 **BSc traineeship**  
University of Verona  
Modelling of proteic complexes

# MAIN SCIENTIFIC CONTRIBUTION

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## Scientific publications

1. Santoro Gloria, Lombardi Gianmarco, Andreola Stefano, Salvagno Gian Luca, **Treccani Mirko**, Locatelli Elena, Ferraro Pietro Manuel, Lippi Giuseppe, Malerba Giovanni, Gambaro Giovanni. *Association analysis of 10 candidate genes causing Mendelian calcium nephrolithiasis in the INCIPE study: a South European general population cohort*. 2023. Clinical Kidney Journal. doi: 10.1093/ckj/sfac225

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## Oral presentations

1. **Treccani Mirko**, Veschetti Laura, Malerba Giovanni. *BioVRPi: can bioinformatics and genomics become pocket-sized and affordable to everyone?*, 2022. Young Minds at Work (YMW). Virtual
2. **Treccani Mirko**, Veschetti Laura, Malerba Giovanni. *The BioVRPi project: a valuable and sustainable alternative for genomic analysis*, 2022. 7th European Student Council Symposium (ESCS2022). Sitges (Spain).
3. **Treccani Mirko**, Veschetti Laura, De Tomi Elisa, Locatelli Elena, Gallinaro Martina, Dagnogo Dramane, Patuzzo Cristina, Malerba Giovanni. *Whole Exome Sequencing imputation: challenges and perspectives for shared common guidelines*, 2022. 25th SIGU meeting, Trieste (Italy).

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## Posters

1. **Treccani Mirko**, Veschetti Laura and Malerba Giovanni. *The BioVRPi project: a valuable and sustainable alternative for genomic analysis*. F1000Research 2022, 11:1310 doi: 10.7490/f1000research.1119195.1
2. **Treccani Mirko**, Veschetti Laura, Locatelli Elena, De Tomi Elisa, Leoni Benedetta, Gallinaro Martina, Dagnogo Dramane, Moron Dalla Tor Lucas, Patuzzo Cristina and Malerba Giovanni. *Pocket-sized genomics and transcriptomics analyses: a look at the newborn BioVRPi project*. F1000Research 2021, 10(ISCB Comm J):1181 doi: 10.7490/f1000research.1118855.1

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## Conference organisation

1. Young Minds at Work (YMW2022) - December 2022
  - Organising team and co-chair of the invited talk
2. 7th European Student Council Symposium (ESCS2022) - September 2022
  - Organising team, co-chair of the Program Committee, chair of the *Sequence analysis* session
3. 18th annual meeting of the Bioinformatic Society (BITS2022) - July 2022
  - Organising team of the *Young BITS-RSG Symposium* and co-chair of the invited talk

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## Advised thesis

1. Meneghini A., *CNV calling on WES: analysis of an Italian family with eosinophilic granulomatosis with polyangiitis (EGPA)*. MSc in Molecular and Medical Biotechnology, University of Verona (2022)
2. Leoni B., *Transcriptome analysis of *strongyloides stercoralis* on a single Raspberry Pi platform*. MSc in Molecular and Medical Biotechnology, University of Verona (2021)