

Manuel Delpero

Bioinformatician



PROFILE

Enthusiastic bioinformatician and data analyst eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Excellent experience in statistics, machine learning and manipulation of biological datasets acquired through studies in top universities and professional experience.

EXPERIENCE & PLACEMENTS

Research assistant at the Animal breeding and Molecular Genetics Institute

Humboldt University of Berlin
2018 – Current

- Collection and analysis of NGS data (RNA-seq, DNA-seq and microarrays).
- Perform GWAS in order to understand the genetics behind complex traits.
- Apply machine learning and statistical methods in order to gain insights from complex biological datasets.
- Visualization of results and creation of reports using common web applications such as Jupyter Notebook.
- Experiment design and manipulation of laboratory animals.
- Perform common laboratory techniques such as PCR, RT-qPCR, gel electrophoresis in agarose, DNA, RNA and protein extraction, ELISA.

Bioinformatician at the Bioinformatics solution center

Free University of Berlin
2018 - 2018

- Design of pipelines for the analysis of RNA-seq data and Mass Spectrometry data.

Research intern

University of Bologna
2017-2018

- Design *in vivo* and *in silico* experiments in order to confirm for the first time the functionality of mitochondrial sncRNAs with nuclear genes as target.

PROGRAMMING LANGUAGES

- R - advanced
- Python – advanced
- Git - advanced
- Bash – intermediate
- SQL - intermediate
- C++ - novice

CONTACT

+393450051493

Manueldlpro94@gmail.com

 <https://de.linkedin.com/in/manuel-delpero>

 github.com/ManuelDelpero

Berlin, Germany

EDUCATION

Technic institute C.A. Pilati

Computer science

Grad. June. 2013

University of Bologna

Bachelor of Sciences - Biology

2013 – 2016

University of Bologna

Master of Sciences – Molecular genetics and bioinformatics

2016 – 2018

Humboldt University of Berlin

Doctor of philosophy – PhD in bioinformatics and molecular genetics

2018 - 2021

KEY SKILLS

- Data Analysis
- Bioinformatics
- RNA Biology
- Genomics
- Genetics
- Molecular biology

LANGUAGES

- **English** - near native / fluent
- **Italian** - native speaker
- **German** - basic communication
- **Spanish** - basic communication

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LICENSES & CERTIFICATIONS



Basic animal science course (mouse / rat) to obtain the Function A "Performing procedures on animals" - Charité Berlin



Research data management - Humboldt graduate school

PUBLICATIONS

- Marco Passamonti, Marco Calderone, Manuel Delpero, Federico Plazzi, *Clues of in vivo nuclear gene regulation by mitochondrial short non-coding RNAs.*, «SCIENTIFIC REPORTS», 2020, 10, pp. 1 – 12.
- D Hesse-Wilting, A Freiberg, M Sprechert, Manuel Delpero, F Krause, Annette Schürmann, Danny Arends, Gudrun A Brockmann, *Unterschiedliche Fettspeicherung in verschiedenen Linien der Berliner Fettmaus assoziiert mit einer Varianz in der Insulinresistenz.*, Diabetologie und Stoffwechsel 2019.
- Federico Plazzi, Manuel Delpero, Andrea Pozzi, Marco Passamonti, *First in vivo evidence of the functionality of a sncRNA of mitochondrial origin (smithRNA) targeting a nuclear transcript and affecting histone methylation.*, SBME 2018, Yokohama (Japan).