

# Davide BRESSAN

## PhD Student | Bioinformatician/Computational biologist



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I am a PhD Student in the Chiacchiera Lab at the Department of Cellular, Computational and Integrative Biology, University of Trento, Italy. Trained as computer scientist and bioinformatician, I am now working as computational biologist in the field of cancer research. My PhD focuses on the epigenetics of liver regeneration and tumorigenesis.

## WORK EXPERIENCE

<b>Current</b> November 2020	<b>PhD Student - Doctoral Program in Biomolecular Sciences, UNIVERSITY OF TRENTO, Italy</b> <ul style="list-style-type: none"><li>&gt; PhD student in the Fulvio Chiacchiera group (Laboratory of Stem Cells and Cancer Genomics).</li><li>&gt; Transdisciplinary program in Computational Biology</li></ul> <p><span>RNA-Seq</span> <span>ChIP-Seq</span> <span>Genetics</span> <span>Cancer</span> <span>R</span></p>
<b>Current</b> November 2022	<b>Teaching assistant, course of Scientific Programming for Data Science, UNIVERSITY OF TRENTO, Italy</b> <ul style="list-style-type: none"><li>&gt; Preparation and delivery of computer laboratory lectures for the Master in Data Science.</li><li>&gt; Exam preparation</li></ul> <p><span>Python</span> <span>Data structures</span> <span>Algorithms</span> <span>Student supervision</span></p>
July 2020 March 2020	<b>Intern Bioinformatician, WINCLOVE PROBIOTICS B.V, Amsterdam, Netherlands</b> <ul style="list-style-type: none"><li>&gt; Trainee in the company's research and innovation team.</li><li>&gt; Analysis of metagenomic data from patients with inflammatory bowel disease using machine learning algorithms</li></ul> <p><span>Metagenomics</span> <span>Machine learning</span> <span>Python</span></p>
July 2020 March 2020	<b>Teaching assistant, course of Fundamentals of Bioinformatics, VRIJE UNIVERSITEIT, Amsterdam, Netherlands</b> <ul style="list-style-type: none"><li>&gt; Guidance and evaluation of students in the first year of the Master in Bioinformatics and System Biology</li></ul> <p><span>Python</span> <span>Student supervision</span></p>
February 2020 August 2019	<b>Intern Bioinformatician, NETHERLANDS CANCER INSTITUTE (NKI), Amsterdam, Netherlands</b> <ul style="list-style-type: none"><li>&gt; Internship as a bioinformatician in the group of Prof. Daniel Peeper (Department of Molecular Oncology and Immunology)</li><li>&gt; Development of an R program for the analysis of splice variants.</li><li>&gt; Thesis title: "The role of transcript variants in immunotherapy resistant melanoma".</li></ul> <p><span>RNA-Seq</span> <span>R</span> <span>Melanoma</span></p>

## FORMATION

2018-2020	Master of Science in Bioinformatics and System Biology – Universiteit van Amsterdam - Vrije Universiteit Amsterdam - Netherlands
2015-2018	Bachelor's Degree in Bioinformatics – University of Verona - Italy

## LANGUAGE

Italian	● ● ● ● ●
English	● ● ● ● ○
Dutch	● ○ ○ ○ ○

## SKILLS

- > Adaptability
- > Presentation and reporting
- > Autonomy

### INCREASED GENOMIC INSTABILITY AND RESHAPING OF TISSUE MICROENVIRONMENT UNDERLIE ONCOGENIC PROPERTIES OF ARID1A MUTATIONS

Science Advances - DOI: 10.1126/sciadv.adh4435  
Co-first author

[Arid1A](#) [Liver Cancer](#) [Mutagenesis](#) [Bioinformatics](#)

### RAR $\gamma$ -FOXA1 SIGNALING PROMOTES LUMINAL IDENTITY IN PROSTATE PROGENITORS AND IS DISRUPTED IN PROSTATE CANCER

Preprint on biorxiv - DOI: <https://doi.org/10.1101/2024.03.06.583256>  
Co-author

[Ar](#) [Foxa1](#) [Prostate Cancer](#) [Bioinformatics](#)

### INCREASED GENOMIC INSTABILITY AND RESHAPING OF TISSUE MICROENVIRONMENT DRIVE ARID1A-DEPENDENT CANCER FORMATION

Oral Talk at SIBBM 2023 - Frontiers in Molecular Biology  
June 2023, Bari, Italy

[mSWI/SNF](#) [Liver Cancer](#) [Arid1A](#) [Bioinformatics](#)

### THE ROLE OF MSWI/SNF COMPLEX IN PRESERVING LIVER TISSUE HOMEOSTASIS AND PREVENTING HEPATOCELLULAR CARCINOMA FORMATION

Poster presented at the 33<sup>rd</sup> PEZCOLLER SYMPOSIUM - Presenting author  
June 2022, Trento, Italy

[mSWI/SNF](#) [Liver Cancer](#)

### ROLE OF THE MSWI/SNF CHROMATIN REMODELING COMPLEX IN PRESERVING LIVER HOMEOSTASIS

Poster presented at the EACR conference - Presenting author  
June 2022, Seville, Spain

[mSWI/SNF](#) [Liver Cancer](#)

## REFERENCES

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### Fulvio Chiacchiera

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### Oscar krijgsman

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