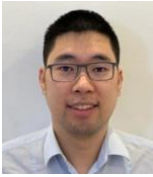


PERSONAL INFORMATION

Yinxu Zhan



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Sex Male | Date of birth 30/04/1989 | Nationality Italian

Table with 3 columns: Enterprise, University, and EPR. It contains checkboxes for various professional levels such as Management Level, Full professor, Associate Professor, etc.

WORK EXPERIENCE

Since 03-2022

Coordinator of Data Science unit

Istituto Europeo di Oncologia, Milan, Italy

- Coordinate the development and implementation of fully-automated and reproducible analysis of multi-omics data...
Support research groups in the development of non-standard analyses pipelines for genomics and microscopy data

Business or sector: Biomedical Research

Since 05-2022

Tutoring in Experimental Design course

Università degli Studi di Milano, Milan, Italy

- Help with teaching in Experimental Design course

Business or sector: University

From 04-2015 to 03-2022

Researcher

Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland

- Develop and implement of analysis pipelines for genomics and transcriptomics data
Analysis of sequencing data from Nanopore technologies
Develop and implement machine learning solutions for pattern recognition in biomedical research
Develop and implement statistical and physical models to describe biological systems
Develop and deploy Streamlit applications for data sharing and visualisation

Business or sector: Biomedical Research

From 01-2020 to 12-2020

Bioinformatics consultant

enGene Statistics GmbH, Basel, Switzerland

- Analysis of Genome-wide CRISPR/Cas9 Knockout screens

Business or sector: Biomedical Research

EDUCATION AND TRAINING

2015-2019

PhD in Biophysics

University of Basel, Basel, Switzerland

Level 8

- My primary research goal was to understand whether and how the three-dimensional conformation

of chromatin is involved in the control of gene expression. To this aim, I used a combination of biophysical modelling and multi-omics data to shed light into the specific role of promoter enhancer interaction and transcriptional regulation.

2012-2014	Master degree in Physics University of Milan, Milan, Italy	Level 7
2009-2012	Bachelor degree in Physics University of Milan, Milan, Italy	Level 6

ADDITIONAL INFORMATION

Total number of publications in peer-review journals: 16

Total number of citations: 424

H-index (Scopus): 10

Top 10 publications

- ◊ P. Mach*, P. Kos*, **Y. Zhan***, et al. "Cohesin and CTCF control the dynamics of chromosome folding" Nat. Genetics, (2022, accepted) *equal contribution
- ◊ J. Zuin, G. Roth, **Y. Zhan**, ... , L. Giorgetti " Nonlinear control of transcription through enhancer-promoter interactions", Nature (2022)
- ◊ B.T. Eichenberger*, **Y. Zhan***, M. Rempfler, L. Giorgetti, J.A. Chao " deepBlink: threshold-independent detection and localization of diffraction-limited spots" Nucleic Acids Res. (2021) *equal contribution
- ◊ F. Zenk*, **Y. Zhan***, ... , L. Giorgetti, N. Iovino " HP1 drives de novo 3D genome reorganization in early Drosophila embryos" Nature (2021) *equal contribution
- ◊ J. Redolfi*, **Y. Zhan***, C. Valdes*, ... , L. Giorgetti " DamC reveals principles of chromatin folding in vivo without crosslinking and ligation" Nat. Struct. Mol. Biol. (2019) *equal contribution
- ◊ J. H. Wilbertz, F. Voigt, I. Horvathova, G. Roth, **Y. Zhan**, J. A. Chao " Single-Molecule Imaging of mRNA Localization and Regulation during the Integrated Stress Response " Mol. Cell. (2019)
- ◊ I. Horvathova, F. Voigt, A.V. Kotrys, **Y. Zhan**, C.G. Artus-Revel, J. Eglinger, M. Stadler L. Giorgetti, J.A. Chao " The Dynamics of mRNA Turnover Revealed by Single-Molecule Imaging in Single Cells " Mol. Cell. (2017)
- ◊ **Y. Zhan**, L. Giorgetti, G. Tiana " Modelling genome-wide topological associating domains in mouse embryonic stem cells" Chromosome Research (2017)
- ◊ **Y. Zhan**, L. Mariani, I. Barozzi, E.G. Schulz, N. Bluthgen, M. Stadler, G. Tiana, L. Giorgetti " Reciprocal insulation analysis of Hi-C data shows that TADs represent a functionally but not structurally privileged scale in the hierarchical folding of chromosomes" Genome Res. (2017)
- ◊ **Y. Zhan**, L. Giorgetti, G. Tiana " Looping probability of random heteropolymers helps to understand the scaling properties of biopolymers." Physical Review E, Vol. 94, 032402, (2016)

Declaration

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV