Daria Rago

Contacts

Tel: +46 (0)702340363 Mail: alfredo.rago@gmail.com Web: alfredorago.com

Links

Github: github.com/alfredorago GoogleScholar: tinyurl.com/rago-scholar

Awards

BEST PRESENTATION Evolution Evolving meeting Cambridge, 2019

BRIDGE GRANT AWARD Funded collaboration between Birmingham University (UK) and UIUC University (USA) (2016)

SECOND BEST PRESENTATION Birmingham BEAR supercomputing PGR conference (2014)

Languages

English (native-level) Italian (native)

Additional training

METABOLOMICS Masterclass NBAF Birmingham

ENVIRONMENTAL GENOMICS NERC advanced training

Experience

2019-NOW	Post-Doc	Copenhagen University (DK)
	Identified responses to probiotics in human gut biopsies and or- ganoids using bulk tissue and single-cell RNA expression. Characterized multi-tissue pregnancy responses to maternal inflam- mation in mice, using transcriptomics and phospho-proteomics. Wrote lectures, taught classes and performed student oral exams. <i>R, Snakemake, Conda, Salmon, Limma, Pathway analysis, dTangle</i>	
2016-2019	Post-Doc	Lund University (SE) University of Southampton (UK)
	Developed pipeline to run, analyze and visualize parallelized simula- tions on supercomputing clusters. Bridged between computer science and evolution research groups. Presented at several international conferences. Provided bioinformatics support on thermal adaptation projects. <i>R</i> , <i>Python/Cython, Snakemake, Conda, DESeq2, GSEA</i>	
	R, Python/Cy	thon, Snakemake, Conda, DESeq2, GSEA
Educatio	., .,	thon, Snakemake, Conda, DESeq2, GSEA
Educatio	., .,	thon, Snakemake, Conda, DESeq2, GSEA Birmingham University (UK)
	On Ph.D. Biosciences Analyzed transcriptomics tim	Birmingham University (UK) ne-series data on non-model species. Is to solve new research questions.
	DN Ph.D. Biosciences Analyzed transcriptomics tim Developed statistical method	Birmingham University (UK) ne-series data on non-model species. Is to solve new research questions. otation for model organism.
2012-2016	Ph.D. Biosciences Analyzed transcriptomics tim Developed statistical method Published new genome anno	Birmingham University (UK) ne-series data on non-model species. Is to solve new research questions. Is to solve new research questions. Otation for model organism. Oxford University (UK) from thesis

Graduated with distinction.

Skills

Bioinformatics

RNAseq workflow (Fastqc, Salmon, Kallisto) DE analyses (Limma/voom, DESeq2, EdgeR) Gene Set Enrichment (GSEA, pathway-based, TF-binding) Online databases (both web-based interface and API access)

Statistics

Exploratory data analysis (PCA, t-sne, clustering) Linear modelling (GLMMs, time-series analysis, ANOVA) Machine learning (random forests, SVM) Network analyses (WGCNA)

Informatics

Expert R coding (incl tidyverse, RMarkdown, ggplot2) Basic Python proficiency (numpy, pandas, scikit-learn) Reproducible research (git, snakemake, conda) Supercomputing (shell/bash, queuing, resource management)