Javier Sánchez Utgés

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Education

PhD University of Dundee, Structural Bioinformatics

Sept 2020 - present

- PIPS Internship at ABPI
- Supervised 7 students across BSc, MSc and PhD degrees
- Reviewer of contributions for ISMB 2024: 3DSIG
- Student Representative of Computational Biology Division

MSc Universitat Pompeu Fabra, Bioinformatics for Health Sciences

Sept 2018 – July 2020

- Grade: 9.3/10
- Honours: Introduction to Perl
- 9-month Internship at the Barton Group ☑, University of Dundee
- MSc Thesis: "Ankyrin repeats in context with population variation"

BSc Universitat Autònoma de Barcelona, Genetics

Sept 2014 - July 2018

- Grade: 8.4/10
- Honours: Bioinformatics, Molecular Structure & Interactions
- 12-month Erasmus exchange at University of Dundee
- Dissertation: "Methods for the detection and estimation of selection acting upon the genome"

Experience _

The Association of the British Pharmaceutical Industry (ABPI), Intern

London, England Aug 2022 – Nov 2022

• Improved the Interactive Resources for Schools website of the ABPI ☑

Barcelona, Spain July 2017 – Sept 2017

Publications

IBE-CSIC-UPF, Intern

Comparative evaluation of methods for the prediction of protein-ligand binding sites

Nov 2024

Utgés JS, Barton GJ

10.1186/s13321-024-00923-z **☑** (Journal of Cheminformatics)

Classification of likely functional class for ligand binding sites identified from fragment screening

Mar 2024

Utgés JS, MacGowan SA, Ives CM, Barton GJ

10.1038/s42003-024-05970-8 **᠘** (Communications Biology)

Ankyrin repeats in context with human population variation

Aug 2021

Utgés JS, Tsenkov MI, Dietrich NJM, MacGowan SA, Barton GJ

10.1371/journal.pcbi.1009335 ☑ (PLOS Computational Biology)

Projects

Online

LIGYSIS-web LIGYSIS-web <a>™ • A Python Flask Web Application to explore protein-ligand binding sites • Tools: Python, JavaScript, HTML, CSS • Packages: Flask, 3DMol.js, Chart.js LBS-comparison LBS-comparison • The largest benchmark of ligand binding site prediction methods. · Tools: Python, P2Rank, fpocket, IF-SitePred, POVME · Packages: BioPython, Pandas, Sklearn FRAGSYS Z **FRAGSYS** • A pipeline for the analysis of fragment screening-derived binding sites • Tools: Python, Bash, Jalview, OC • Packages: Matplotlib, Pandas, Seaborn **ANK-analysis** ANK-analysis 🗹 • The most comprehensive analysis of Ankyrin repeats · Tools: Python, ClustalO, Chimera, AMPS, gnomAD • Packages: ProIntVar, ProteoFAV, VarAlign Conferences __ **ISCB ISMB 2024** July 2024 Poster: "LIGYSIS: a resource for the analysis of ligand binding sites" Montreal, Canada 3D-BioInfo | ICSB 3D-SIG | ELIXIR Czech Republic Community Meeting in Structural Nov 2023 **Bioinformatics** Poster: "LIGYSIS: a resource for the analysis of ligand binding sites" Prague, Czech Republic **ISCB ECCB/ISMB 2023** July 2023 Poster: "Characterising the human protein-ligand interactome" Lyon, France EMBO VizBi 2023 Mar 2023 Poster + flash talk: "Predicting function in ligand binding sites" Heidelberg, Germany **ISCB ECCB 2022** Sept 2022 Poster: "Fragment screening in context with human population variation" Sitges, Spain **European Society for Evolutionary Biology Symposium** June 2021

Talk: "Tandem Repeats: methods and roles in molecular evolution"

Assets ____

Languages: Python, Bash, R, JavaScript, HTML, CSS. **Software:** Jalview, ChimeraX, PyMol, Clustal, HMMER.

Skills: Protein sequence and structure analysis, machine learning, web development, workflow generation, method benchmarking, version control, scientific writing, supervision, team work.

Languages _____

Spanish and Catalan: Mother tongue

English: Advanced level, C1 (Grade A, First Certificate in English) **German:** Advanced level, B2 (5 years at Official Language School)

French: Basic level

References _____

PhD Supervisor: Prof Geoff Barton 🗹

PIPS Supervisor: Dr Andrew Croydon ☑

BSc Dissertation Supervisor: Prof Antonio Barbadilla 🗹