

Joaquín Hernández-Yévenes

ASTROPHYSICIST · DATA SCIENTIST

Universidad de Concepción (UdeC), Concepción, CHL

📧 joacoh.github.io

Education

Universidad de Concepción

MASTER DEGREE (MSc, ASTRONOMY & ASTROPHYSICS)

- Thesis title: [Using the WeA: Combining WISE-eROSITA-ALMA to predict \(sub\)mm emission from millions of SMBH\(B\)](#)
- Supervisor: DR. NEIL NAGAR

Concepción, Chile

2022 – today

Universidad de Concepción

BACHELOR AND PROFESSIONAL (CHL) DEGREE IN ASTRONOMY

Concepción, Chile

2018 – 2023

Research Internships

Discussion and refinement of the WISE2MBH algorithm

WORKGROUP: DOMINIC PESCE, ANGELO RICARTE, YURI KOVALEV AND OTHERS

- Late stage development of an algorithm that uses WISE photometric data to estimate supermassive black hole masses
- Explore uses for ngEHT, MOJAVE, ALMA and many other projects
- Discussion over the overall statistics of input/output samples

BHL at Harvard, Massachusetts, USA

Mar. – Apr. 2023

Assistanships

Astronomía Extragaláctica

PROFESSOR: DR. RICARDO DEMARCO

UdeC, Concepción, Chile

Semester II. 2023

Radioastronomía

PROFESSOR: DR. NEIL NAGAR

UdeC, Concepción, Chile

Semester II. 2023

Peer review publications

First-author publications:

- 1 WISE2MBH: A SIMPLE ALGORITHM FOR THE STUDY OF SUPERMASSIVE BLACK HOLES AND THEIR POPULATIONS
USING WISE PHOTOMETRIC DATA

2023

Hernández-Yévenes J., Nagar N. & Arratia V.

MNRAS

N-author publications:

- 1 EVENT HORIZON AND ENVIRONS (ETHER): A CURATED DATABASE FOR EHT AND NGEHT TARGETS AND SCIENCE
Ramakrishnan V., Nagar N., Arratia V., Hernández-Yévenes J., Pesce D.W., Nair D.G., Bandyopadhyay B., Medina-Porcile C.,
Krichbaum T.P., Doeleman S., Ricarte A., Fish V.L., Blackburn L., Falcke H., Bower G., & Natarajan P.

2023

Galaxies

Outreach

2022 La nueva generación del Telescopio Horizonte de Eventos (ngEHT) y Chile

Viernes Estelares de
Astronomía, UdeC

Leadership & Community Service

SciCat: Grupo de apoyo creado por y para estudiantes

FOUNDER, CONTENT CREATOR AND COMMUNITY MANAGER

Instagram / YouTube

2020-2022

Certificates

2023	Certification in Machine Learning with Python , freeCodeCamp	Certificate
2022	Certification in Data Analysis with Python , freeCodeCamp	Certificate
2022	Certification in Scientific Computing with Python , freeCodeCamp	Certificate
2022	Certificado en Cloud Computing , Google & Esc. de Org. Industrial	
2021	Escuela de Física del Magister en Cs. Físicas , Universidad del Bío Bío (UBB)	
2019	Curso de Inglés Avanzado , SNBP & BiblioRedes	

Skills

Programming	Python, TeX, Bash
Data analysis	NumPy, Pandas, Matplotlib, Seaborn, SciPy, scikit-learn, Tensorflow
Photography	Gimp, Inkscape
Video	Olive

Other

Citizenship	Chilean
Birth year	1999 (23 years old)
Languages	Spanish (native), English