Joaquín Hernández-Yévenes

ASTRONOMER

Universidad de Concepción (UdeC), Concepción, CHL

Education

Universidad de Concepción

Concepción, Chil

MASTER DEGREE (MSc, ASTRONOMY)

2022 – today

- Thesis title: WISE2MBH: A simple algorithm for morphology, bulge fraction and black hole mass estimation using WISE catalogs
- Supervisor: Dr. Neil Nagar

Universidad de Concepción

Concepción, Chile

BACHELOR AND PROFESSIONAL (CHL) DEGREE IN ASTRONOMY

2018 - 2023

Research Internships

Discussion of the WISE2MBH algorithm and ngEHT prospects

BHI at Harvard, Massachusetts, USA

Workgroup: Dominic Pesce, Angelo Ricarte, Yuri Kovalev and others

Mar. - Apr. 2023

- · Late stage development of the WISE2MBH algorithm that estimate supermassive black hole masses from WISE data.
- Explore uses for ngEHT, MOJAVE and ALMA to present proposals based on the algorithm estimates and population predictions.
- Discussion about WISE2MBH parent and final sample, and possible interest of the community.
- Discussion over super massive black hole binary candidates and strategies to detect them.

Publications _____

WISE CATALOGS

WISE2MBH: A SIMPLE ALGORITHM FOR MORPHOLOGY, BULGE FRACTION AND BLACK HOLE MASS ESTIMATION USING

2023

Hernández-Yévenes J., Nagar N., Arratia V. & Jarrett T.H.

Submitted to MNRAS

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

Successful PI observing proposals ____

TOWARDS RESOLVING ORBITING BINARY SMBH, PLUS SHADOWS, JETS, AND ACCRETION FLOWS OF SINGLE SMBH: ACA FLUXES

2023

Hernández-Yévenes J., Arevalo P., Arratia V., Bower G., Cuadra J., Gurwell M., Krichbaum T., Leigh N., Lira P., Nagar N., Nair D., Ramakrishnan V., Rao R., Reeves R. & Sasikumar S.

ALMA Cycle 10

Assistanships

Astronomía Extragalactica Professor: Dr. Ricardo Demarco

UdeC, Concepción, Chile

Semester II. 2023

Radioastronomía

UdeC, Concepción, Chile

PROFESSOR: DR. NEIL NAGAR

Semester II. 2023

Outreach

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

Viernes Estelares de Astronomía, UdeC

Leadership & Community Service

WISE2MBH algorithm (package and repository)

2023-today

DEVELOPER AND MAINTAINER

SciCat: Grupo de apoyo creado por y para estudiantes

Instagram / YouTube

FOUNDER, CONTENT CREATOR AND COMMUNITY MANAGER

Workshops & Certificates

2023 Certification in Machine Learning with Python, freeCodeCamp Certificate 2022 Certification in Data Analysis with Python, freeCodeCamp Certificate Certification in Scientific Computing with Python, freeCodeCamp Certificate 2022

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, T_EX, git, Bash

Data analysis NumPy, Pandas, Matplotlib, Seaborn, SciPy, scikit-learn, Tensorflow

Photography Gimp, Inkscape

Video Olive

Other_

Citizenship Chilean

Birth year 1999 (24 years old) Languages Spanish (native), English