

Ching-Wa Yip

Department of Physics & Astronomy, Johns Hopkins University
3701 San Martin Drive
Baltimore, MD 21218, USA

+1 (410) 5164908
cwyip@pha.jhu.edu
Green Card Holder

EDUCATION

- 2005 Ph.D. Department of Physics & Astronomy, University of Pittsburgh, USA
- 1998 M.Phil. Department of Physics, Chinese University of Hong Kong, HK
- 1996 B.Sc. Department of Physics, Chinese University of Hong Kong, HK

RESEARCH INTERESTS

Galaxy Formation
Computational Astrophysics
Data Intensive Sciences

POSITIONS

- 2014-Present **Associate Research Scientist**
Department of Physics and Astronomy, Johns Hopkins University, USA
- 2011-2014 **Assistant Research Scientist**
Department of Physics and Astronomy, Johns Hopkins University, USA
- 2005-2011 **Post-Doctoral Fellow**
Department of Physics and Astronomy, Johns Hopkins University, USA
- 1999-2005 **Research Assistant**
Department of Physics and Astronomy, University of Pittsburgh, USA
- 1998-1999 **Teaching Assistant**
Department of Physics and Astronomy, University of Pittsburgh, USA
- 1996-1998 **Research & Teaching Assistant**
Department of Physics, Chinese University of Hong Kong, HK
- 1995 **Course Promotion Representative (Summer Internship)**
Hong Kong Computer and Language Centre, HK
- 1992 **Foreign Exchange Operator (Summer Internship)**
The Chase Manhattan Bank, Central Branch, HK
- 1991 **Office Assistant (Summer Internship)**
The Chase Manhattan Bank, Central Branch, HK

AWARDS

2013	Asteroid 206185 Yip
2005-2010	W. M. Keck Fellow
2004-2005	Andrew Mellon Pre-Doctoral Fellow
2001-2002	Zaccheus Daniel Fellow
1996-1997	Outstanding Teaching Assistant, CUHK

SERVICES

Current	Peer Reviewer (Astrophysical Journal, Astronomical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy and Computing)
Current	Member, Institute for Data Intensive Engineering and Science (IDIES), JHU
Current	Member, American Astronomical Society
2014	Panel, National Science Foundation NRT: Data-Enabled Science and Engineering
2013	Panel, NASA NESSF 13, Extragalactic
2013	Chair, Galaxies Session, AAS Long Beach, CA
2012	Panel, NASA Astrophysics Theory Panel, Galaxies
2011	Reader Panel, Nature
2010	Reader Panel, Nature
2009	Organizing Committee, IDIES Inaugural Symposium

OBSERVING

2004	Mt. Graham International Observatory, USA
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MENTORING OF PH.D. STUDENTS

Carlos Sing-Long (Stanford; 3D Spectroscopy, Astronomy Data); **László Dobos** (ELTE; Spectroscopy, PCA); **Manuchehr Taghizadeh-Popp** (JHU; Galaxy Properties, SDSS); **Sui Chi Woo** (Pitt.; AGN Variability, Multi-Epoch Spectral Calibration); **Samuel L. Carlile** (JHU; Photometric Redshift, Galaxy Inclination Effect); **Jayant Gupchup** (JHU; PCA, Data Mining); **Michele Bierbaum** (JPL; Image Analysis); **Mike Specian** (JHU; PCA, SDSS); **Niraj Welikala** (Pitt.; Stellar Population Modelling)

MENTORING OF UNDERGRADUATE STUDENTS

Craig Bohrson (JHU; Genome PCA)

ADVISING OF UNDERGRADUATE STUDENTS

Tucker Brownell (JHU; 3D Spectroscopy, Image Analysis)

TEACHING

2014	Data Mining in Modern Astronomy Sky Surveys (Junior and Senior Undergraduates) Undergraduate Intersession Course, the Johns Hopkins University, USA
2013-2014	Introduction to Galaxies (Physics Major & Upper-Level Elective) Substitute for Rosemary Wyse in several classes, the Johns Hopkins University, USA
2011-2012	Introduction to Stellar Physics Substitute for Rosemary Wyse in several classes, the Johns Hopkins University, USA
1998-1999	Physics Laboratories Teaching Assistant, Department of Physics and Astronomy, University of Pittsburgh, USA
1996-1998	Electricity and Magnetism, Numerical Computation for Physicists Teaching Assistant, Department of Physics, the Chinese University of Hong Kong, Hong Kong

CITATIONS (GOOGLE SCHOLAR)

300 first-authorship, 3300 total.

REFERENCES

Alexander S. Szalay	Alumni Centennial Professor Director	Department of Physics & Astronomy and of Computer Science Institute for Data Intensive Engineering and Science (IDIES) Johns Hopkins University +1 (410) 516 7217 szalay@jhu.edu
Rosemary F. G. Wyse	Professor	Department of Physics & Astronomy Johns Hopkins University +1 (410) 516 5392 wyse@skysrv.pha.jhu.edu
Emmanuel J. Candès	Professor	Department of Mathematics and of Statistics Department of Electrical Engineering (by courtesy) Stanford University +1 (650) 725 2236 candes@stanford.edu
Andrew J. Connolly	Professor	Astronomy Department University of Washington +1 (206) 543 9541 aic@astro.washington.edu
Sarah J. Wheelan	Associate Professor Co-Director	Oncology Biostatistics and Bioinformatics Next Generation Sequencing Center (NGSC) Sidney Kimmel Comprehensive Cancer Center Johns Hopkins University School of Medicine +1 (410) 502 7754 swheelan@jhmi.edu