

CV - Zoltán Haiman - February 2018

Present Position Professor, *Department of Astronomy, Columbia University*

Education 1998 Ph.D., Astronomy, Harvard University
1995 Postgraduate Certificate, Physics & Chemistry, Cambridge University
1994 M.A., Astronomy, Harvard University
1993 B.S., Physics and B.S., Electrical Engineering, both at MIT

Previous Positions

2008-2013 Associate Professor, *Department of Astronomy, Columbia University*
2003-2007 Assistant Professor, *Department of Astronomy, Columbia University*
1999-2002 Hubble Fellow, *Astrophysics Department, Princeton University*
1998-1999 Research Associate, *Fermi National Accelerator Laboratory*

Awards and Honors

2016 Simons Fellowship in Theoretical Physics (Simons Foundation)
2010 Blavatnik Award for Young Scientists (New York Academy of Sciences)
2004 New York City Mayor's Award for Excellence in Science and Technology (finalist)
2002 Brilliant 10, Popular Science Magazine (top 10 young US scientists)
1997-1998 Merit Fellowship, Harvard University
1994-1995 Isaac Newton Studentship, Cambridge University
1994-1995 Cambridge European Trust Overseas Research Scholarship
1993 Sigma Pi Sigma, Phi Beta Kappa, and Eta Kappa Nu Honor Societies, MIT

PhD Students *I have supervised 8 Astronomy and 6 Physics PhDs completed over the past 13 years:*

2017 Maria Charisi (postdoctoral researcher at Caltech/JPL)
Andrea Petri (in finance, Morgan Stanley)
2016 Jia Liu (NSF Fellow at Princeton University)
Daniel D'Orazio (Einstein Fellow at Harvard University)
2013 Xiuyuan Yang (financial analyst, Citibank)
2011 Taka Tanaka (joint research associate at Stony Brook and NYU)
2010 Cien Shang (Computational Physicist, St. Jude Children's Hospital, Memphis, TN)
Wenjuan Fang (faculty at University of Science and Technology of China, Hefei)
2009 Roban Kramer (in high-tech industry)
Bence Kocsis (faculty at Eötvös University, Budapest, Hungary)
2007 Sheng Wiley Wang (financial analyst, Goldman Sachs)
Jun Zhang (Faculty at Shanghai Jiao Tong University)
2006 Andrei Mesinger (faculty at University of Pisa, Italy)
2005 Mark Dijkstra (faculty at University of Oslo, Norway)

Postdocs

I have mentored 6 postdocs over the past 13 years:

2014-	Kohei Inayoshi (JSPS and then Simons Fellow)
2013-2016	James Colin Hill (Simons Fellow 2014-2017; now joint IAS Princeton/Flatiron postdoc)
2013-2016	Eli Visbal (Columbia Prize Fellow; now research scientist at the Flatiron Institute, NYC)
2011-2015	Brian Farris (joint NYU/Columbia postdoc; now in high-tech industry)
2006-2009	Jan Kratochvil (ISCAP postdoc)
2003-2005	Justin Khoury (ISCAP postdoc; now faculty at University of Pennsylvania)

Federal Research Support as Principal Investigator

2018-2021 (NASA)	Realizing the Full Potential of Weak Lensing Cosmology
2017-2020 (NSF)	The Long-Term Evolution of Binary Black Holes with Circumbinary Disks
2017-2020 (NASA)	Uncovering the Population of Compact Supermassive Black Hole Binaries
2017-2019 (NASA)	Testing the Origin of Periodic Variability for the Binary Candidate Quasar PG1302-102
2015-2018 (NASA)	Self-Consistent Models for Primordial Star-Formation and Reionization
2012-2015 (NSF)	Cosmology from Non-Linear Weak Lensing
2011-2014 (NASA)	The Response of a Circumbinary Disk to a Black Hole Merger
2005-2010 (NSF)	A Multi-Wavelength Calibration of Galaxy Clusters as Cosmological Probes
2005-2006 (NASA)	Gamma Ray Bursts as Probes of Early Structure Formation
2004-2008 (NASA)	The Earliest Astrophysical Structures and the Reionization History of the Universe
2003-2006 (NSF)	Fireworks at the Ballet: Globular Cluster Formation, Bulge Dynamics and the Role of Central Black Holes in Galaxy Mergers
2003-2006 (NSF)	Multiwavelength Observational Signatures of the First Stars and Quasar Black Holes

Service and Other Activities

2017-	Science and Technology Definition Team for NASA's concept study for Lynx
2009-	Co-director of the Institute for Strings, Cosmology, and Particle Physics (ISCAP) at Columbia University
2007-	Co-director of new Eötvös International Research School in Astrophysics in Budapest, Hungary
2003	Co-Investigator for DECS: a JDEM proposal for a new X-ray satellite
2003-	I have served on most major review panels in the field, including NASA, NSF, and DOE physics and astronomy proposal panels, the NSF CAREER program; NASA, NSF, and Hubble postdoctoral fellowship programs, and many international proposal selection panels, including the European Research Council and the major national science funding agencies in Germany, Switzerland, The Netherlands, Israel, Hungary, Chile, South Africa and India.

Publications

200+ peer-reviewed publications with 13,000 total NASA ADS citations (*h-index=63*)
This excludes my SDSS collaboration papers with long author lists.
150+ invited talks, including conferences, colloquia, and seminars