

CV - Zoltán Haiman

Present Positions (2025-) Professor, *Institute of Science and Technology Austria (ISTA)*
Professor, *Department of Astronomy, Columbia University*
Professor, *Department of Physics, 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 supervised 11 Astronomy and 6 Physics PhDs completed over the past 16 years:*

2023 Tianhuan (Brian) Lu (in finance)
2020 José Manuel Zorrilla Matilla (postdoctoral Fellow, Princeton University)
Andrea Derdzinski (EMIT Fellow, Vanderbilt and Fisk University)
2019 Jemma Wolcott-Green (NSF Fellow at University of California, Santa Barbara)
2017 Maria Charisi (junior faculty, Washington State University and Univ. of Crete)
Andrea Petri (in finance)
2016 Jia Liu (junior faculty, IPMU, University of Tokyo, Japan)
Daniel D'Orazio (junior faculty, NBI, University of Copenhagen, Denmark)
2013 Xiuyuan Yang (in finance)
2011 Taka Tanaka (in data science)
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 University of Oxford, UK)
2007 Sheng Wiley Wang (in finance)
2006 Andrei Mesinger (faculty at University of Pisa, Italy)
2005 Mark Dijkstra (faculty at University of Oslo, Norway)

Postdocs

I have mentored 8 postdocs over the past 16 years:

2021 –	Hiomichi Tagawa (now junior faculty at Shanghai Observatory)
2020 –	Jordy Davelaar (now Hubble Fellow at Princeton University)
2020 –	Kung-Yi Su (now postdoc at ITC, Harvard University)
2020 –	Ryan Westermacher-Schneider (now postdoc at Leiden University, The Netherlands)
2018 – 2020	Jonathan Zrake (now junior faculty at Clemson University, South Carolina)
2014 – 2018	Kohei Inayoshi (now junior faculty at Peking University, China)
2013 – 2016	James Colin Hill (now junior faculty at Columbia University)
2013 – 2016	Eli Visbal (now junior faculty at University of Toledo, Ohio)
2011 – 2015	Brian Farris (now in high-tech industry)
2006 – 2009	Jan Kratochvil (left the field)
2003 – 2005	Justin Khoury (now faculty at University of Pennsylvania)

USA Federal Research Support as Principal Investigator (\$7M total as Columbia faculty)

2024 – 2027 (NASA)	Realizing the Full Potential of Weak Lensing Cosmology [\$645k]
2024 – 2027 (NASA)	Finding massive BH binaries with gravitational waves and electromagnetic surveys [\$251k]
2022 – 2025 (NASA)	Orbital Evolution and Multi-Messenger Signatures of Binary Black Holes with Circumbinary Disks [\$448k]
2020 – 2023 (NSF)	Forming the First Massive Black Holes [\$776k]
2018 – 2021 (NASA)	Realizing the Full Potential of Weak Lensing Cosmology [\$615k]
2017 – 2020 (NSF)	The Long-Term Evolution of Binary Black Holes with Circumbinary Disks [\$436k]
2017 – 2020 (NASA)	Uncovering the Population of Compact Supermassive Black Hole Binaries [\$502k]
2018 – 2019 (NASA)	Testing the Origin of Periodic Variability for the Binary Candidate Quasar PG1302-102, Swift Cycle 14 [\$33k]
2017 – 2018 (NASA)	Testing the Origin of Periodic Variability for the Binary Candidate Quasar PG1302-102, Swift Cycle 13 [\$42k]
2015 – 2018 (NASA)	Self-Consistent Models for Primordial Star-Formation and Reionization [\$412k]
2012 – 2015 (NSF)	Cosmology from Non-Linear Weak Lensing [\$411k]
2011 – 2014 (NASA)	The Response of a Circumbinary Disk to a Black Hole Merger [\$581k]
2005 – 2010 (NSF)	A Multi-Wavelength Calibration of Galaxy Clusters as Cosmological Probes [\$960k]
2005 – 2006 (NASA)	Gamma Ray Bursts as Probes of Early Structure Formation [\$60k]
2004 – 2008 (NASA)	The Earliest Astrophysical Structures and the History of Reionization [\$258k]
2003 – 2006 (NSF)	Fireworks at the Ballet: Globular Cluster Formation, Bulge Dynamics and the Role of Central Black Holes in Galaxy Mergers [\$48k]
2003 – 2006 (NSF)	Multiwavelength Signatures of the First Stars and Quasar Black Holes [\$263k]

Service and Other Activities

2024 –	Scientific editor, Journal of Cosmology and Particle Physics (JCAP)
2024 –	LISA Consortium Constitutional Council
2019 – 2024	NASA LISA Study Team (NLST), NASA-appointed member
2018 – 2024	LISA Science Group (LSG), ESA board-appointed member
2017 – 2020	Science and Technology Definition Team (STDT) for Lynx, NASA-appointed member
2009 – 2024	Co-director, Institute for Strings, Cosmology, and Particle Physics (ISCAP, Columbia)
2003	Co-Investigator for DECS: a JDEM proposal for a new X-ray satellite
2003 – ongoing	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 Austria, Chile, the Czech Republic, Germany, Hungary, India, Israel, the Netherlands, Poland, Qatar, Russia, Serbia, South Africa, Switzerland, UAE.

Publications

300+ peer-reviewed publications with 27,000+ total NASA ADS citations (*h-index=89*)

This excludes large collaboration papers with minor contributions & long author lists

230+ invited talks, including conferences, colloquia, and seminars in last 20 years