

Patrik Jonsson

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Education

Ph.D., Astronomy & Astrophysics, University of California, Santa Cruz (September 2004):
“Simulations of Dust in Interacting Galaxies”
Advisors: Prof.’s Joel Primack and Sandra Faber
M.S., Astronomy & Astrophysics, University of California, Santa Cruz (1999)
M.S., Engineering Physics, Uppsala University, Sweden (1996):
*“A study of the use of the decay $B^{***} \rightarrow B^{0(*)}\pi^+$ for $B_0 - \bar{B}_0$ tagging in ATLAS”*

Research Experience

Astrophysicist, Harvard-Smithsonian Center for Astrophysics, Nov 2009 – present
Postdoctoral Researcher, U.C. Santa Cruz, Oct 2004 – Oct 2009
Graduate Student Researcher, U.C. Santa Cruz, 1997–2004.
CERN Summer Student, 1995

Teaching and Education Experience

Instructor, Center for Adaptive Optics Professional Development Program, 2008-2009, 2005
Instructor, Po’okela, a program for native-Hawaiian high school students, Maui Community College, 2007
Advisor, Undergraduate Senior Thesis (Miguel Rocha), 2006
Instructor, Center for Adaptive Optics Akamai Observatories Short Course, Waimea/Hilo, HI, June 2004
Participant, Center for Adaptive Optics Workshops on Inquiry-Based Learning, 2001 – 2004
Instructor, California Summer School for Mathematics and Science, 2001, 2002
Teaching Assistant (5 Classes, Undergraduate Astronomy Overview), 1997 – 2002

Grants

as PI:

HST Theory Grant AR-11758 (2008): “Simulated HST Observations of Elliptical Galaxies in Formation”, \$105k
HST Theory Grant AR-10958 (2006): “Quantifying Observed Timescales in Galaxy Mergers using Simulations”, \$100k
Spitzer Theory Grant P30183 (2006): “Infrared Predictions from Simulations of Merging Galaxies”, \$100k

as Co-I with major involvement:

Nvidia Professor Partnership Program (equipment grant, PI: Primack)
HST Theory Grant AR-10678 (2005): “Simulated HST Images of Merging Galaxies Including Star Formation and Dust”, \$100k (PI: Primack)
Institute for Geophysics and Planetary Physics (IGPP) University Collaborative Research Program Grant, 2003 & 2004

Awards and Fellowships

Semifinalist award, the 2008 NSF Science & Engineering Visualization Challenge, with entry “Merging Galaxies: Simulating Realistic Visual Appearance”
UCSC Department of Astronomy and Astrophysics Whitford Prize, 1998
Sweden-America Foundation Fellowship, 1997
Scholarship for Research, The Foundations of Anders Wall, 1990