

# Charles Forbes Gammie: Curriculum Vitae

## Contact

Astronomy Department  
202 Astronomy Building, 1002 W. Green Street, Urbana, IL 61801, USA

Physics Department  
235 Loomis Lab, 1110 W. Green Street, Urbana, IL 61801, USA

voice: (217) 333-8646  
email: gammie@illinois.edu  
web: rainman.astro.illinois.edu/gammie

## Education

Princeton University, September, 1987—December, 1991

Ph.D. in Astrophysical Sciences, June, 1992. Thesis: “The Formation of Giant Molecular Clouds.” Advisor: Jeremy Goodman. Princeton-Von Neumann Supercomputing Award.

Yale University, September, 1983—June, 1987

B.Sc. in Mathematics, June, 1987. Senior Thesis: “Stability of Spherically Symmetric Accretion onto a Schwarzschild Black Hole.” Advisor: Vincent Moncrief. Beckwith Prize in Astronomy, DeForest Prize in Mathematics.

## Research Interests

I am a theoretical and computational astrophysicist who has worked on black hole accretion, planet formation, star formation, cosmic ray transport, and interstellar turbulence. I have developed numerical methods for modeling relativistic plasmas, relativistic radiation magnetohydrodynamics, and radiative processes in hot plasmas.

## Positions Held

August, 2005—: Professor, Astronomy Department and Physics Department, University of Illinois at Urbana-Champaign.

August, 2011—August, 2014: Chair, Astronomy Department, University of Illinois at Urbana-Champaign.

August, 2004—August, 2005: Associate Professor, Astronomy Department and Physics Department, University of Illinois at Urbana-Champaign.

January, 1999—August, 2004: Assistant Professor, Astronomy Department and Physics Department, University of Illinois at Urbana-Champaign.

September, 1998—December, 1998: Research Associate, Radio and Geoastronomy Division, Smithsonian Astrophysical Observatory.

September, 1994—August 1998: postdoctoral fellow with Ramesh Narayan, Theoretical Astrophysics Division, Harvard-Smithsonian Center for Astrophysics.

January—June 1998: Rosenbaum Fellow, Program on Dynamics of Astrophysical Discs, Isaac Newton Institute, University of Cambridge (on leave from Center for Astrophysics).

April—June 1997: postdoctoral fellow, Institute of Astronomy, University of Cambridge (on leave from Center for Astrophysics).

January, 1992—August, 1994: Virginia Institute for Theoretical Astronomy Postdoctoral Fellow, Astronomy Department, University of Virginia.

June—August, 1988 and 1989: Consultant, Radio Physics Group, Crawford Hill, Bell Laboratories.

### **Awards and Activities**

Consultant, Center for Computational Astrophysics, Flatiron Foundation, July 2017.

Visiting Fellow, All Souls College, University of Oxford, Michaelmas Term, 2015.

Visiting Professor, Department of Physics, University of Oxford, August 2015—July 2016.

Simons Fellow in Theoretical Physics, August 2015—May 2016.

Visitor, Max-Planck-Institut für Astrophysik, April 2011—July 2011.

University Scholar, University of Illinois, Sept. 2007—Aug. 2010.

Richard and Margaret Romano Professorial Scholar, Oct. 2007—Oct. 2010.

Member, Institute for Advanced Study, Sept. 2006—June 2007.

Fellow of the American Physical Society, 2006.

Sony Faculty Fellow, Sept. 2005—Aug. 2008.

Coordinator for Kavli Institute for Theoretical Physics program on “Jets and Accretion Disks,” Apr. 2005—July 2005, University of California, Santa Barbara, with Henk Spruit and Omer Blaes.

Beckman Fellow, 2002—2003, Center for Advanced Study, University of Illinois at Urbana-Champaign.

Presidential Early Career Award for Scientists and Engineers, July 2002. The “*highest honor bestowed by the United States Government on scientists and engineers beginning their independent careers.*”

National Center for Supercomputing Applications, Faculty Fellow, 2001-2002, University of Illinois at Urbana-Champaign.

*11 August 2017*