

Steven S. Gubser

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Field of Specialization

String theory, formal and applied.

Positions Held

- **Princeton University**, Professor, 2005–present.
- **Princeton University**, Associate Professor, 2001–2005.
- **Caltech**, Professor, 2001.
- **Princeton University**, Assistant Professor, 2000.
- **Harvard University**, Junior Fellow of the Society of Fellows, 1998-1999.

Honors, awards, and service

- Simons Investigator in Physics, 2017-2022.
- Princeton Faculty Council on Teaching and Learning, 2016-present; committee chair starting fall 2017.
- Physics Department Associate Chair for Undergraduate Affairs, 2015-present.
- Simons Fellow in Theoretical Physics, 2012-2013.
- Physics Department Director of Graduate Studies, 2010 to 2012.
- Guggenheim Fellowship, 2009; Blavatnik Award, 2008; Gribov Medal, 2001.

Professional activities

- Author or co-author of over 145 articles on theoretical physics.
- Author of *The Little Book of String Theory*, 2010; co-author with F. Pretorius of *The Little Book of Black Holes*, 2017. Publisher: Princeton University Press.
- Over 165 invited lectures to date. Notable recent venues include Eurostrings 2015, Strings 2016, the Simons Foundation in 2015, Google NYC in 2017, the Smithsonian in 2017, and the Hayden Planetarium in 2017.

Education

- **Princeton University**, PhD in Physics, 1998, advisor I. Klebanov, thesis title “Dynamics of D-brane black holes.”
- **Princeton University**, MA in Physics, 1996.
- **Cambridge University**, Part III of Math Tripos, 1995.
- **Princeton University**, AB in Physics, 1994.

Selected publications

1. S. S. Gubser and F. Pretorius, *The Little Book of Black Holes*. Princeton University Press, Princeton, NJ, USA, October 2017.
2. S. S. Gubser, M. Heydemann, C. Jepsen, M. Marcolli, S. Parikh, I. Saberi, B. Stoica, and B. Trundy, “Edge length dynamics on graphs with applications to p -adic AdS/CFT,” *JHEP* **06** (2017) 157, [1612.09580].
3. S. S. Gubser, J. Knaute, S. Parikh, A. Samberg and P. Witaszczyk, “ p -adic AdS/CFT,” *Commun. Math. Phys.* **352** (2017) 1019–1059, [1605.01061].
4. H. Bantilan, F. Pretorius and S. S. Gubser, “Simulation of Asymptotically AdS_5 Spacetimes with a Generalized Harmonic Evolution Scheme,” *Phys.Rev.* **D85** (2012) 084038, [1201.2132].
5. S. S. Gubser, “Symmetry constraints on generalizations of Bjorken flow,” *Phys.Rev.* **D82** (2010) 085027, [1006.0006].
6. S. S. Gubser and S. S. Pufu, “The Gravity dual of a p -wave superconductor,” *JHEP* **0811** (2008) 033, [0805.2960].
7. S. S. Gubser, “Breaking an Abelian gauge symmetry near a black hole horizon,” *Phys.Rev.* **D78** (2008) 065034, [0801.2977].
8. S. S. Gubser, “Drag force in AdS/CFT,” *Phys.Rev.* **D74** (2006) 126005, [hep-th/0605182].
9. S. S. Gubser, I. Klebanov and A. M. Polyakov, “A Semiclassical limit of the gauge / string correspondence,” *Nucl.Phys.* **B636** (2002) 99–114, [hep-th/0204051].
10. S. S. Gubser, I. R. Klebanov and A. M. Polyakov, “Gauge theory correlators from noncritical string theory,” *Phys.Lett.* **B428** (1998) 105–114, [hep-th/9802109].