

DAVID LOWE

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Education

- 9/88 — 8/93 Ph.D., Physics Department, Princeton University
Advisor: A.M. Polyakov, Co-advisor: I.R. Klebanov
Thesis topic: 2d quantum gravity.
- 9/85 — 6/88 M.A. (Cantab) 1st class honors. Cambridge University, U.K.
Awarded Hartree and Maxwell prize for top of Physics tripos.

Employment

- 7/14 — Full Professor, Brown University
- 7/03 — 6/14 Associate Professor, Brown University
- 7/97 — 6/03 Assistant Professor, Brown University
- 9/96 — 7/97 Senior Research Fellow, California Institute of Technology.
- 9/93 — 8/96 Postdoctoral researcher, Physics Department,
University of California at Santa Barbara.

Service

Outreach: New England Strings Meeting, 2007–present, co-organizer.

Referee: Physical Review D, Physical Review Letters, Classical and Quantum Gravity, Nuclear Physics B, Physics Letters B, Journal of High Energy Physics, Cambridge University Press, NSF grant review, DOE grant review.

Honors and Awards

- 1999 Salomon Faculty Research Award, Brown University
- 1988 Hartree and Maxwell Prize, Cambridge University (awarded to the student with highest Tripos results in Physics)
- 1985 Girdlers' Scholarship (awarded to one New Zealand high school student each year to fund a B.A. at Cambridge University)

Students

Fun fact: all my former PhD students either have faculty positions or are still postdoctoral researchers.

5/26 – Ph.D student, Bing-Nan Liu

5/24 – Ph.D. student, Yiru Wang

5/24 – Ph.D. student, Juanyi Yang

9/18 – 5/22 Ph.D. student, Chang Liu (currently postdoc at Shanghai Jiaotong University)

1/21– 5/22 Master's thesis student, Hanzhang Zhao

9/16 – 5/17 Undergraduate senior thesis student, Richard Oliver

9/16 – 5/17 Master's thesis student, Ekapob Kulchoakrungsun

9/16 – 5/17 Master's thesis student, Adrian Lam

1/17 – 5/17 Master's thesis student, Conghuan Luo

1/16–5/16 Undergraduate senior thesis student, Jahmour Givans

1/16–5/16 Undergraduate senior thesis student, Kallan Berglund

1/14 — 5/18 Ph.D. student, Atreya Chatterjee (currently Asst. Prof. at RKMVERI, India)

9/09 — 7/13 Ph.D. student, Antun Skanata (currently Research Asst. Prof. Syracuse U.)

9/11 — 5/12 Undergraduate senior thesis student, William Hicks awarded prize for best senior thesis in Brown Physics

1/10 — 4/10 Undergraduate senior thesis student, Alice Goldfarb

9/05 — 5/10 Ph.D. student, Shubho Roy currently Associate Prof, IIT, Hyderabad, India

9/04 — 5/09 Ph.D. student, Michael Abbott currently Associate Research Scientist, Yale U.

9/07 — 5/08 Undergraduate senior thesis student, Edward Baker

6/07 — 8/07 UTRA student, Edward Baker

1/07 — 5/07 Undergraduate senior thesis student, Patrick Courville

9/05 — 5/06 Undergraduate senior thesis student, Eric Perlmutter currently postdoc, Caltech

9/05 — 5/06 Undergraduate senior thesis student, John Murray

6/04 — 8/04 UTRA student, Robert Morris

9/00 — 10/04 Ph.D. student, Kevin Goldstein (currently Full Professor, U. Witwatersrand, South Africa)

9/03 — 5/04 Undergraduate senior thesis student, Kenli Okada

6/03 — 8/03 UTRA student, Kenli Okada

6/02 — 8/03 UTRA student, Ben Lehmann

9/01 — 5/02 Freshman academic advisor

9/01 — 5/02 Sophomore academic advisor

9/01 — 5/01 Undergraduate senior thesis students, Benjamin Leung and Jason Young
 6/00 — 8/00 UTRA student, Jason Young
 9/97 — 8/01 Ph.D. student, Kamran Diba (currently Full Professor, Medical School, University of Michigan)

Postdocs mentored

2019 –2022 David Ramirez (Ph.D. Stanford U. Currently postdoc Cambridge University)
 2018 Paul Chesler (Ph.D. Washington U. Currently lecturer MIT)
 2013 – 2015 Steven Avery (Ph.D. Ohio State U. Currently employed at Google)
 2011 - 2014 Ilies Messamah (Ph.D. Amsterdam U. Currently faculty at ENS, Algiers)
 2011 - 2013 Klaus Larjo (Ph.D. U. Penn. Currently Goldman-Sachs)
 2005 Jeff Murugan (Ph.D. Cape Town U. Currently faculty U. of Cape Town)
 1999 - 2003 Gian Luigi Alberghi (Ph.D. Bologna U. Currently faculty INFN Bologna)
 2003 Horatiu Nastase (Ph.D. SUNY Stony Brook. Currently faculty San Paulo, Brasil)
 2001 - 2003 Sanjaye Ramgoolam (Ph.D. Yale U. Currently faculty Queen Mary U. London)
 2001 - 2003 Steven Corley (Ph.D. U. of Maryland. Currently staff Johns Hopkins Applied Physics)
 1999 Richard Easter (Ph.D. Canterbury U. Currently Head of Dept. Auckland U.)
 1998 Rikard Von Unge (Ph.D. Stockholm U. Currently Head of Dept. Masaryk U. Czech)
 1998 Karl Landsteiner (Ph.D. Vienna, Tech. U. Currently faculty, IFT Spain)
 1998 Esperanza Lopez (Ph.D. IMAFF, Madrid. Currently faculty, IFT Spain)

Publications

As of August 2025, D.L. has 5200 citations, and h-index of 39 and 107 peer-reviewed publications. The median h-index for Full Professors ranges up to 25. It should be noted that in the field of High Energy Theoretical Physics authors are always listed on publications in alphabetical order. A full list of these papers, along with citation counts, can be found at [publications](#). A selected list of these papers follows:

Holographic representation of local bulk operators

Alex Hamilton (Columbia U.), Daniel N. Kabat (Columbia U.), Gilad Lifschytz (Haifa U.), David A. Lowe (Brown U.) e-Print: hep-th/0606141 DOI: 10.1103/PhysRevD.74.066009: Phys.Rev.D 74 (2006), 066009

Local bulk operators in AdS/CFT: A Boundary view of horizons and locality

Alex Hamilton (Columbia U.), Daniel N. Kabat (Columbia U.), Gilad Lifschytz (Haifa U.), David A. Lowe (Brown U.) e-Print: hep-th/0506118 [hep-th] DOI: 10.1103/PhysRevD.73.086003 Phys.Rev.D 73 (2006), 086003

Macroscopic and microscopic entropy of near extremal spinning black holes

J.C. Breckenridge (McGill U.), D.A. Lowe (UC, Santa Barbara), Robert C. Myers (McGill U.), A.W. Peet (Princeton U.), A. Strominger (UC, Santa Barbara) et al.
e-Print: hep-th/9603078 [hep-th] DOI: 10.1016/0370-2693(96)00553-9 Phys.Lett.B 381 (1996), 423-426

Black hole complementarity versus locality

David A. Lowe (UC, Santa Barbara), Joseph Polchinski (Santa Barbara, KITP), Leonard Susskind (Stanford U., Phys. Dept.), Larus Thorlacius (Santa Barbara, KITP), John Uglum (Stanford U., Phys. Dept.) e-Print: hep-th/9506138 [hep-th] DOI: 10.1103/PhysRevD.52.6997 Phys.Rev.D 52 (1995), 6997-7010

Holography, cosmology and the second law of thermodynamics

Richard Easter (Brown U.), David A. Lowe (Brown U.)
e-Print: hep-th/9902088 [hep-th] DOI: 10.1103/PhysRevLett.82.4967
Phys.Rev.Lett. 82 (1999), 4967-4970

Constructing local bulk observables in interacting AdS/CFT

Daniel Kabat (Lehman Coll.), Gilad Lifschytz (Haifa U.), David A. Lowe (Brown U.)
e-Print: 1102.2910 [hep-th] DOI: 10.1103/PhysRevD.83.106009 Phys.Rev.D 83 (2011), 106009