

Sheldon Cooper Ph.D.

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Education

- **Ph.D. in Theoretical Physics**, California Institute of Technology
GPA: 4.00; Dissertation: Black-hole Entropy in Loop Quantum Gravity
May, 2001
Pasadena, CA
- **Ph.D. in Theoretical Physics**, University of Texas, Austin
GPA: 4.00; Dissertation: Electroweak Baryogenesis and Low Energy Supersymmetry
May, 1996
Austin, TX
- **B.S. in Physics**, University of Texas, Austin
GPA: 3.99
May, 1994
Austin, TX

Work Experience

- **California Institute of Technology, Theoretical High Energy Physics**
Postdoctoral Scholar
2001 - Present
Pasadena, CA
 - Research new theories of hadronization in baryons
 - Research magnetic monopoles in condensed-matter systems by modeling spin ice
- **Heidelberg Institute for Theoretical Studies, Theoretical Astrophysics**
Visiting Scholar
1996 - 1997
Heidelberg, Germany
 - Lectured on supersymmetry in fermions
 - Applied for research grants to experimentally show asymptotic freedom in quarks and gluons

Publications

Journal Articles

A General Mathematical Theory of Depreciation, 1929, *Journal of The American Statistical Association* 20, 340–353.

Differential Equations Subject to Error, 1927, *Journal of The American Statistical Association*.

Applications of the Theory of Error to the Interpretation of Trends (with H. Working), 1929, *Journal of the American Statistical Association*.

Proceedings

A generalized T-Test and measure of multivariate dispersion, Proc. Second Berkeley Symposium of Mathematical Statistics and Probability, 1951.

Skills

- Programming: Python, C/C++, Lua, Java, JavaScript, PHP, Bash, Fortran, R, MATLAB, SQL, \LaTeX
- Database: MySQL, PostgreSQL, MongoDB
- Operating System: Linux, Unix, Windows
- Tools: Spark, Hadoop, Hive, Nutch/Solr, OpenMP/MPI, Cordova, Git, Vim

Awards & Honors

- Caltech Chancellor's Award for Science 2003
- Stevenson Award 1994
- National Scholarship (Top 50 out of 20,000+; University-wide) 1994
- Top Class Academic Scholarship (Top 1%; College-wide) 1992, 1993, 1994

Last updated: June 16, 2017