CURRICULUM VITAE

Cheyne Matthew Scoby

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Personal Data

Born June 6, 1984, in Santa Barbara, CA, United States of America.

Research Interests

Experimental particle beam physics. Experimental high energy and particle physics.

Education

- **Bachelor of Science (physics, with distinction)**
  with High Honors
  College of Letters & Science
  University of California, Santa Barbara
  From 09/02 to 6/06.
- **Doctorate (physics), in progress**
  Department of Physics and Astronomy
  University of California, Los Angeles

Work Experience

- **Math/Science tutor.** Cal-SOAP Santa Barbara. At Bishop Garcia Diego High School. From 10/02 to 06/03. Santa Barbara, CA.
- **Lab technician** Maintained and prepared chemistry, physics, and biology laboratories. Wrote several lab procedures for physics students. At Bishop Garcia Diego High School. From 10/02 to 06/03. Santa Barbara, CA.
- **Math/Science tutor.** Cal-SOAP Santa Barbara. At Dos Pueblos High School. From 9/03 to 04/04. Santa Barbara, CA.
- **Research assistant.** E. Gwinn Group. Department of Physics. University of California, Santa Barbara. From 4/04 to 6/05. Santa Barbara, CA.
- **Math/Science tutor.** CLAS. University of California, Santa Barbara. From 7/04 to 6/06. Santa Barbara, CA.

- **Intern.** Internship for Physics Majors. Instrumentation group, Accelerator Division. Fermi National Accelerator Laboratory. Advised by A. Warner. From 6/05 to 8/05. Batavia, IL.
- **Research assistant.** D. Stuart Group. Department of Physics. University of California, Santa Barbara. From 8/05 to 6/06. Santa Barbara, CA.
- **Summer research assistant.** UCLA CDF Analysis Group. Department of Physics and Astronomy. University of California, Los Angeles. Advised by D. Saltzberg and C. Plager. From 6/06 to 9/06. Fermilab, Batavia, IL.
- **Teaching assistant.** PHYS 6AH - Mechanics Lab for Life-Science Majors, Fall 2006. PHYS 4BL - Electromagnetism Lab for Scientists and Engineers, Winter 2007. PHYS 1C - Physics for Scientists and Engineers, Spring 2007. UCLA, Los Angeles, CA.
- **Graduate student researcher.** Pegasus lab. Particle Beam Physics Laboratory. Department of Physics and Astronomy. University of California, Los Angeles. Advised by P. Musumeci. From 5/07 to present. Los Angeles, CA.

Projects and Publications

- **paper:** co-authored by I. Carmeli, F. Bloom, T.C. Kreutz, C. Scoby, E.G. Gwinn, A.C. Gossard, S.G. Ray, and R. Naaman. *"Molecular enhancement of ferromagnetism in GaAs/GaMnAs heterostructures"*. Appl. Phys. Lett. 89, 112508 (2006).
- **thesis:** Honors thesis completed for distinction in the major. *"Low-Data Investigation of Higgs Boson Discovery at the LHC"*. Advised by D. Stuart. Completed 6/19/06.

Talks

- **January 26, 2005:** Poster session, California Nanosystems Institute business advisory board meeting. University of California. Santa Barbara, CA.
- **July 1, 2005:** Presentation, *"Abort Scope Monitor"*. Tevatron group meeting. FNAL. Batavia, IL.
- **August 10, 2005:** Presentation, *"Beam Position and Profile Monitors at Fermilab"*. Fermilab IPM required talk. FNAL. Batavia, IL.
- **May 18, 2006:** Poster session, *"Higgs Boson Discovery at the LHC(?)"*. Colloquium for Undergraduate Research. Undergraduate Research and Creativity Association. University of California. Santa Barbara, CA.
- **June 7, 2006:** Presentation, *"Investigation of Low-Data Higgs Boson Discovery at the LHC"*. Senior thesis talk. Department of Physics. University of California. Santa Barbara, CA.

Honors and Awards

- **UCSB**
  - College of Letters & Science honors program. January 2003 to present.
  - Dean's honors. College of Letters & Science. Winter, Fall 2003. Winter, Spring, Fall 2004. Spring 2005.
  - Kirby-Jones Scholarship. College of Letters & Science. 2004-2005 academic year.
  - J&I Campbell Scholarship. College of Letters & Science. 2003-2004, 2005-2006 academic years.
  - Physics research honors. Department of Physics. May 2005.
  - Phi Beta Kappa. California Lambda chapter. June 2005.
  - Outstanding senior award. Department of Physics. June 2006.
  - Highest academic honors. Department of Physics. June 2006.
  - Physics research honors. Department of Physics. June 2006.
- **UCLA**
  - GAANN fellowship. Department of Physics and Astronomy. 2006-2007 academic year.
  - Summer research fellowship. Department of Physics and Astronomy. Summer 2006, 2007.

Organizations

- **Santa Barbara Choral Society**
  First tenor, 1998 to 2006, Santa Barbara, CA.
- **UCSB Chamber Choir**
  Second tenor, Spring 2004 to Spring 2006, Santa Barbara, CA.
- **American Physical Society**
  Member since September 2005.
- **Society for Physics Students and ΣΠΣ**
  UCSB chapter, March 2004 to June 2006.
  Served as Secretary, April 2004 to June 2005.
  Served as Sigma Pi Sigma coordinator, January 2005 to June 2006.
- **UCLA Chorale**
  Second tenor, Fall 2006 to present, Los Angeles, CA.
- **UCLA Chamber Choir**
  Second tenor, Fall 2006 to present, Los Angeles, CA.

Computer Skills

HTML, Maple, C/++, UNIX, Linux, LabVIEW, SolidWorks, CasaXPS, LaTeX 2ϵ, ChemSketch, PYTHIA, ROOT.

Interests and Hobbies

Singing tenor, playing flute, tennis, racquetball, motorcycling, driving, language.

Languages Studied

Spanish, French, Italian, Esperanto, German.