

## JORY P. WEINTRAUB, PH.D.

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### EDUCATION

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**Ph.D. in Immunology** - Concentration: Murine Models of Autoimmune Disease **1999**  
The University of North Carolina at Chapel Hill, Department of Microbiology and Immunology

**B.S. in Biochemistry and Cell Biology** - Minor: Psychology. The University of California at San Diego, Revelle College **1988**

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### PROFESSIONAL EXPERIENCE

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**Science Communication Director, Senior Lecturing Fellow**, Duke Initiative for Science & Society **2015 - Present**  
Duke University, Durham, NC

- Plan, implement, and facilitate the Science & Society science communication program to provide science communication training and opportunities for faculty, graduate students and undergraduate students.
- Teach science communication courses, including colloquium-style courses which equip students across science disciplines with essential science communication skills. Organize and teach the graduate spring semester course and the undergraduate fall semester course.
- Spearhead, organize, and facilitate the Science Communication Fellows program (which provides science communication training for Duke faculty) and the Summer boot camp (a 3-day workshop for Duke and external faculty that parallels the curriculum of the Science Communication Fellows Program).
- Develop, revise, and enhance science communication curriculum; lead training and class sessions; identify, contact, and coordinate speakers/trainers; coordinate workshop logistics; market initiatives and recruitment of participants; and organize continuing science communication education for initiative graduates.
- Serve as a science communication resource within Science & Society by creating written and web content; conduct empirical analyses of program effectiveness; consult with other departments and programs on the development of science communication training; explore the creation of science communication training for postdoctoral fellows; and serve as an available science communication resource both at Duke and in the wider community.

**Assistant Director of Education & Outreach**, National Evolutionary Synthesis Center (NESCent), Durham, NC **2005 - 2015**

- Joined a newly-funded international research center as its first education/outreach (E/O) hire and established an international program which has served tens of thousands of students, teachers, scientists and general public around the world by creating and running multiple E/O initiatives.
- Managed all day-to-day activities associated with E/O, including supervision and mentoring of over 50 undergraduates, graduate students, postdoctoral fellows and full-time staff.
- Successfully delivered hundreds of workshops, classroom and after-school sessions, and general public presentations on evolutionary science, both nationally and internationally – often to audiences resistant to or hostile towards the topic.
- Served on NESCent Management Team to develop and implement policy guiding NESCent's \$5 million/year budget.
- Designed and implemented all evaluation and assessment efforts for E/O group.
- Developed and ran professional development program for 44 postdocs.
- Obtained funding (3-year, \$265K NSF grant) for, designed and managed *NESCent Ambassador Program* ([ambassadors.nescent.org](http://ambassadors.nescent.org)), an international evolution outreach initiative which sent dozens of NESCent scientists and educators to developing countries throughout the world to deliver training in evolutionary science, informatics and education to scientists, educators, students and general public.
- Created and ran the *Darwin Day Roadshow* program ([roadshow.nescent.org](http://roadshow.nescent.org)) which sent dozens of NESCent scientists to visits schools and community centers in small, rural communities and areas with high numbers of under-served minority students each February to celebrate Charles Darwin's birthday by talking to students, teachers and general public about evolutionary biology and careers in science. This program has reached thousands of students in 22 states and has been featured by the New York Times and US News & World Reports.
- Created and ran SALSA – Seeing and Learning Science Afterschool ([salsa.nescent.org](http://salsa.nescent.org)), a bilingual after-school program to teach evolutionary science, ecology and genetics to K-6 students.
- Created and ran *NESCent Evolution Film Festival & Video Contest* ([filmfestival.nescent.org](http://filmfestival.nescent.org)), an annual competition resulting in dozens of short videos freely accessible to the education community and general public.
- Co-organized and ran *Undergraduate Diversity at Evolution*, a travel award program bringing hundreds of diverse undergrads to annual international Evolution conference, providing them with scientific and professional development.

- Created and ran *NESCent MSI Faculty Travel Award Program*, offering professional/scientific development opportunities to instructors from minority serving institutions by bringing them to annual international Evolution conference.
- Developed, organized and ran *Evolution and Ecology at SACNAS*, a suite of evolution/ecology-focused activities at the annual conference of SACNAS (Society for the Advancement of Chicanos and Native Americans in Science). This program has served thousands of under-represented minority undergraduates each year since 2006.
- Established, organized and managed annual evolution symposium and accompanying teacher training workshop at National Association of Biology Teachers (NABT) conference, as well as associated teacher travel award program. Additionally, developed and ran a travel award program to bring high school teachers and community college instructors to NABT conference each year, enhancing their professional development.
- Created and delivered annual 3-day summer workshop on evolution education to provide professional development to hundreds of pre-service and in-service high school science instructors.
- Co-created and co-organized day-long Darwin Day Celebration at North Carolina Museum of Natural Sciences serving thousands of museum visitors annually since 2010.
- Organized and managed NESCent's weekly scientific seminar series and quarterly "NESCent Director's Seminar" series.
- Participated in multiple working groups and catalysis meetings focusing on evolution education and outreach.
- Reviewed education-focused proposals for NESCent-sponsored working groups, catalysis meetings, sabbaticals and postdoctoral fellowships.

**Program Coordinator, Education Research Group**

**2001 – 2005**

Partnership for Minority Advancement in the Biomolecular Sciences (PMABS), Department of Biology, UNC-Chapel Hill

- Developed and implemented multiple research projects involving IT-based and traditional pedagogy.
- Oversaw development and implementation of education research projects by direct reports.
- Published and disseminated findings at national education and IT meetings and conferences.

**Program Coordinator, Science Education Change Initiative**, PMABS, Department of Biology, UNC-Chapel Hill

**2002 – 2005**

- Oversaw all administrative and financial aspects of a \$3.8 million National Institutes of Health Training Grant, including program assessment and evaluation, annual reporting and budget management.
- Recruited, hired and supervised seven Ph.D. scientists serving as "Life Science Change Agents" whose responsibilities included undergraduate instruction, IT training and facilitation and student mentorship, at historically minority universities (HMUs) throughout North Carolina.
- Designed, coordinated and implemented training, professional development for Ph.D. Change Agents.

**Postdoctoral Fellow – Science Education/Instructional Technology/Minority Outreach**

**1999 - 2002**

PMABS, Department of Biology, UNC-Chapel Hill

- Designed a Distributed Learning Network (DLN) connecting eight partner universities (UNC Chapel Hill and seven historically minority universities) via videoteleconference classrooms.
- Obtained funding to develop DLN; oversaw construction of DLN classrooms.
- Innovated and refined novel pedagogical strategies required for effective DLN use to ensure equity of educational access by offering otherwise unavailable courses to students throughout partnership.
- Developed and delivered group and individual workshops and training sessions for faculty, staff and students on topics such as innovative pedagogy, active learning and effective IT use in education.
- Created multiple web-based, scientific learning modules.

**Biology Instructor**

**2001 – 2005**

Department of Biology, UNC-Chapel Hill (and as visiting Instructor at Elizabeth City State University, Fayetteville State University, UNC-Pembroke)

- Created and taught undergraduate courses (Introduction to Immunology, Molecular Basis of Disease) at UNC-Chapel Hill.
- Taught Biology courses via videoteleconference-based Distributed Learning Network to several North Carolina historically minority universities (HMUs).

**Consulting Developer/Instructor – Executive Continuing Science Education Program**

**2003 – 2004**

BioMerieux, Inc., Durham, NC

- Met with upper-level management (President and several Vice Presidents) of large medical diagnostics company to determine their existing knowledge level on topics of basic and clinical biological sciences.
- Designed comprehensive Biosciences curriculum for Executive Continuing Education Program.
- Developed and delivered series of workshops covering above curriculum using innovative pedagogical approaches and active learning methods to increase participant engagement and participation.

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## GRANTS AND FUNDING

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- Paleontological Society Outreach and Education Grant, Project Title: SACNAS Field Trip to Page Museum/La Brea Tar Pits (2014), \$2,500.
- National Science Foundation Co-PI of EAGER (EARly-concept Grants for Exploratory Research) Award, Project Title: NESCent Ambassador Program (2011 – 2014), \$265,000.
- European Society of Evolutionary Biology Outreach Initiative, Project Title: Spanish-Language Translation of “Evolution in the News” (2011), \$3,000.
- UNC Chapel Hill, Office of the Provost, Co-PI of Distance Education Development Grant (2001), \$65,670.
- UNC Chapel Hill, Classroom Design and Advisory Committee, “Wireless Classroom” grant recipient (2001).
- UNC Chapel Hill, Office of the Provost, Co-PI of Distance Education Development Grant (2000), \$79,600.
- National Science Foundation Postdoctoral Fellowship in Science, Mathematics, Engineering and Technology Education (1999 – 2002), \$153,000.
- Caroline H. and Thomas S. Royster Jr. Dissertation Fellowship Recipient, Awarded by The Graduate School, University of North Carolina at Chapel Hill (1998 – 1999), \$16,000.
- United States Public Health Service (USPHS) Pre-doctoral trainee (1994 – 1998).
- The S.L.E. Foundation, Inc. Travel Grant, November (1997), \$500.

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## AWARDS AND SERVICE

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- Outstanding Informal Educator Award in Science, Mathematics, and Technology Education – 2014 (awarded by the North Carolina SMT Education Center)
- *National Alliance for Broader Impacts* (NABI) Steering Committee (2014 – present)
- *TriCEM* (Triangle Center for Evolutionary Medicine) Advisory Board (2015 – present)
- Evolution 2014 Conference Organizing Committee
- Kenan Fellows Program Mentor (2012 – 2013)
- Society for the Study of Evolution (SSE) Education Committee (2013 – present)
- Editorial Board member and *ad hoc* reviewer, *Evolution: Education and Outreach* (2007 – present)
- Johnson C. Smith University HBCU-UP Grant External Advisory Committee Member (2005 – present)
- Norfolk State University Biology Advisory Committee (2006 – present)
- “Who’s Who in College Teaching” (2004)
- NCSSM Science Fair Judge and sponsor of *NESCent Evolution Award* (annually, 2009 – present)
- Founding member of UNC Chapel Hill Postdoc Organization
- Graduate and Professional Student Federation (GPSF) Senator - Elected representative of the Department of Microbiology and Immunology, (1994 – 1996)

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## REPRESENTATIVE PUBLICATIONS, BOOK CHAPTERS AND PRESENTATIONS

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Weintraub, J.P. (2014) “Hit the Road, Chuck: Evolution Education Goes Mobile with the Darwin Day Roadshow”. Manuscript currently under review, *PLoS Biology*.

Rodrigo, A., Alberts, S., Cranston, K., Kingsolver, J., Lapp, H., McClain, C., Smith, R., Vision, T., Weintraub, J., and Wiegmann, B. (2013) “Science Incubators: Synthesis Centers and Their Role in the Research Ecosystem”. *PLoS Biol.*, Jan. 2013; 11(1): e1001468.

Weintraub, J.P., Cohn, S., Rubio de Casas, R. (2012) “Spicing Up Evolution Outreach with SALSA (Seeing and Learning Science Afterschool)”. Presented at *Evolution 2012*, Ottawa, Canada.

Weintraub, J.P. (2006) “Teaching Students to Evaluate the Accuracy of Science Information on the Internet”. In *Handbook of College Science Teaching*, NSTA Press.

Weintraub, J.P. (2004) “Through the Eyes of a Child: Demonstrating Student Understanding of Complex Scientific Concepts through Creation of Children’s Adventure Stories”. In *Teaching Tips: Innovations in Undergraduate Science Instruction*, NSTA Press.

Complete list, including scientific publications, available on request.

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## **PROFESSIONAL ORGANIZATIONS**

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- National Alliance for Broader Impacts (NABI)
- National Science Teachers Association (NSTA)
- North Carolina Science Teachers Association (NCSTA)
- Society for College Science Teachers (SCST)
- National Association of Biology Teachers (NABT)
- Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)
- American Educational Research Association (AERA)
- Association for the Advancement of Computing in Education (AACE)