

# Topher Gee

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## EDUCATION

<b>The Johns Hopkins University</b>	<b>Ph.D. in Biology</b>	2002
<b>University of South Carolina</b>	<b>M.S. in Marine Science</b>	1995
<b>Tufts University</b>	<b>B.S. in Biology</b>	1993

## SCIENCE EDUCATOR EXPERIENCE

**Upper School Science Teacher** – Charlotte Latin School 2013-Present

- ◆ Courses taught: Biology; Biology (Honors); Advanced Placement Biology; Genetics; Human Anatomy and Physiology
- ◆ Served as Academic Advisor to twelve high school students
- ◆ Member of the Upper School Diversity Committee
- ◆ Chair of the Service Learning Committee
- ◆ Faculty advisor to Queers and Allies and the Paws for the Cause student groups
- ◆ Assistant Coach for Track and Field (high jump)

**Biology Lecturer** – Department of Biology, University of North Carolina at Charlotte 2007-2013

**Associate Graduate Faculty Member** 2010-2013

**Undergraduate Coordinator** 2011-2013

- ◆ Courses taught:

Science and Technology in Society	Cell Biology Laboratory
Enrichment Seminar	Genetics
General Biology I	Developmental Biology
General Biology II	Senior Seminar
General Biology II Laboratory	

- ◆ Supervised 12 Graduate Teaching Assistants, 3 Undergraduate Teaching Assistants, 1 Part-Time Faculty member, and 9 Supplemental Instruction Leaders.

**AP Biology Reader** 2011-2016

**Biology Teacher** – Independence High School (9<sup>th</sup>-12<sup>th</sup> grades, public), Charlotte, NC 2006-2007

**Academy of International Studies Faculty Member**

- ◆ Courses taught: Greenhouse Biology; Advanced Placement Biology

**Instructor** – W.E.B. DuBois Scholars Institute for Academically Gifted High School Students, Princeton, NJ 2006

- ◆ Course taught:

<b>Upper School Science Teacher</b> – Oak Knoll School (7 <sup>th</sup> -12 <sup>th</sup> grades, private), Summit, NJ	2003-2006
<b>Science Department Chair</b>	2004-2006
<ul style="list-style-type: none"> <li>◆ Courses taught: Botany, Geology, and Environmental Science; Advanced Placement Biology; Biology; Biology Honors; Marine Science; Genetics</li>   <li>◆ Managed annual budget in excess of \$30,000 while supervising four teachers.</li> <li>◆ Advised Science Club.</li> </ul>	
<b>Excellence in Teacher Education Institute</b> – Johns Hopkins University	2001
<ul style="list-style-type: none"> <li>◆ Team-taught graduate-level content and pedagogy course for middle and secondary school MAT students seeking Biology Certification.</li> </ul>	
<b>Cancer Biology Instructor</b> – Johns Hopkins University	1999
<ul style="list-style-type: none"> <li>◆ Created and taught an original, writing-intensive course for upper-level undergraduates.</li> </ul>	
<b>Laboratory Coordinator</b> – University of South Carolina	1994
<ul style="list-style-type: none"> <li>◆ Trained and supervised two graduate instructional assistants and an undergraduate assistant.</li> </ul>	
<b>Graduate Teaching Assistant</b> – University of South Carolina	1993–1995
Johns Hopkins University	1996–1997

## RELATED PROFESSIONAL EXPERIENCES

<b>Exhibit Developer</b> – Liberty Science Center, Jersey City, NJ	2001-2003
<ul style="list-style-type: none"> <li>◆ Conceptualized and developed scientific content for a 7100 ft<sup>2</sup> exhibition about human infectious diseases.</li> <li>◆ Ultimately led the multidisciplinary exhibition development team.</li> <li>◆ Designed and conducted research to understand visitors' knowledge, interests, and habits.</li> <li>◆ Led a biweekly exhibit developer staff meeting. Contributed to exhibition design.</li> <li>◆ Served as an auxiliary instructor for Electronic Fieldtrips and School Residency Program.</li> <li>◆ Mentored and supervised one college intern.</li> </ul>	
<b>Public Programmer</b> – Maryland Science Center, Baltimore, MD	1998–2000
<ul style="list-style-type: none"> <li>◆ Mastered nine science demonstrations and performed them for up to 150 people.</li> <li>◆ Interacted with visitors through hands-on activities.</li> <li>◆ Facilitated visitor experiences in an early childhood discovery room.</li> </ul>	

## RESEARCH EXPERIENCE

- Designed and executed a comprehensive developmental biology research project using the fruit fly *Drosophila melanogaster*. Employed genetic, transgenic, molecular biology, and genome database mining techniques. Cultivated hundreds of fruit fly strains.
- Conceived of and designed sperm swimming quantification project. Constructed novel experimental equipment. Collected and maintained adult *Arbacia punctulata* (sea urchin).
- Maintained both larval and adult *Crepidula fornicata* (marine snail) as well as algal cultures. Monitored larval and juvenile growth. Assessed achievement of metamorphic competence.
- Examined whether artificially increasing seawater potassium ion concentration could be used to assess *Crepidula fornicata* (marine snail) metamorphic competence.

## **ACCOMPLISHMENTS**

- Received a total of seven teaching awards from three different institutions.
- Named a National Academies Education Fellow in the Life Sciences for 2012-2013.
- More than a dozen presentations to professional and lay audiences in person, on television, and on radio.
- Extensive committee work at the department, college, and university levels.
- Awarded nearly \$30,000 in grant funding.