Thomas Farmer
New Products Manager

Education and Outreach
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Igniting children¹s curiosity, ambition, and problem-solving potential

(a) Professional Preparation

Undergraduate: Tufts University, Engineering and Biology. B.S.E. 1990.
Graduate: Tufts University, Middle School Math/Science Education. M.A.T. 1995.
Post Graduate: University of Southern Maine, Computer Science Coursework.

(b) Appointments & Professional Experience

2000- 2014 Gulf of Maine Research Institute, Portland, ME

- 2012 New Products Manager, Gulf of Maine Research Institute
- 2008 Special Projects Manager, PowerHouse program lead
- 2004+ Developer, Executive Producer of *LabVenture!* kiosk/web/app development:
  - 2015-2018 Climate Δ (partially funded by NSF Coastal SEES)
  - 2012-2015 Complex Systems (funded and based on NSF CNH research)
  - 2009-2012 Lobster: Untold Tales
  - 2005-2009 Mystery of the X-Fish
- 2004 Co-Developer of the Cohen Center for Interactive Learning, First iteration of the hardware IT/AV platform, hardware/software integration.
- 2003 Program Coordinator, Vital Signs
- 2000 Web Developer (ref Atlantic Herring, Undersea Landscapes, etc.)

1995- 2000 Pubic School Teaching Positions

- 1999 Yarmouth High School, Yarmouth, ME, 9th-12th Grade Technology, Business
- 1998 Brunswick Junior High School, Brunswick, ME, 7th-8th Grade Math
- 1995 Foothills Middle School, Wenatchee, WA, 7th-8th Grade Technology

1990- 1995 Field Biologist, Outdoor Educator (various positions, locations)

(c) Products: See Professional Experience.

(d) Synergistic Activities:

Thomas Farmer has developed and produced four three-year content streams for GMRI's Cohen Center for Interactive Learning including the most recent, Climate Δ - helping middle school-age students answer the question, "How will climate change affect the Gulf of Maine, its ecosystem, and the people that depend on it?"

These experiences have been funded in part by the NSF CNH (Coupled Natural Human Systems) and NSF Coastal SEES programs and include the integrated work of researchers from the Gulf of Maine Research Institute, University of Maine, Northwest Fisheries Science Center, and SUNY Stonybrook.

The program currently serves approximately 75% of Maine's 5th and 6th graders – about 10,000 students per year - and will focus on the fundamental science of climate change while developing data and science literacy, notably around the use of computer modeling to understand complex systems.

Additional activities in 2014-2015 will include scale up of GMRI's PowerHouse program aimed at 7th and 8th grade students (working with personal home electricity datasets and using evidence-based reasoning to change behavior around climate change) and development of a web-based application to help fishermen and fishery managers work together given likely future effects of climate change on species populations.

(e) Collaborators and Other Affiliations: None

(f) Graduate Advisors and Postdoctoral Sponsors:

M.A.T Graduate Studies Advisors:

- Dr. David Hammer, Chair of Education, Professor of Education, Physics, Co-Director of the Center for Engineering Education and Outreach
- Dr. Uri Wilenski, Center for Connected Learning and Computer Based Modeling, Developer of NetLogo, Northwestern University and the MIT Media Lab

Thesis Advisor and Postgraduate-scholar Sponsor : None