

# Amanda Joy

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## Education

**State University of New York College of Environmental Science and Forestry (SUNY ESF):** Master of Professional Studies in Environmental Interpretation, 2011

**Syracuse University:** Master of Science in Biology Education, 2011

**Miami University- Earth Expedition: Borneo:** Graduate field course in primate conservation and inquiry-based education, 2010

**Ithaca College:** Bachelor of Arts in Biology, 2006

**Semester at Sea:** Study abroad semester in eleven countries in South America, Africa and Asia, 2005

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## Experience

**Co-Founder and Director of Education, [The Wrinkled Brain Project](#), Pittsburgh, PA**

February 2015-Present

- Co-founder of nonprofit educational startup company
- Design and develop new inquiry-based educational product for online STEM learning
- Manage team of education entrepreneurs
- Develop operating business and marketing plans
- Design and direct development of new inquiry-based educational technology and tools

**Education Manager, Pittsburgh Botanic Gardens, Pittsburgh, PA**

March 2015-Present

- Developing education master plan for the institution's first education department
- Creating curriculum and course materials for programs with audiences of all ages
- Develop and manage partnerships with area educators and institutions
- Manage staff, interns and volunteers
- Assist with creation of garden facilities for adult, children and special needs audiences
- Research potential funding sources and write grant proposals
- Develop and manage budgets
- Develop and provide professional development for K-12 teachers and administrators

**Science Education Program Manager, Phipps Conservatory and Botanical Gardens, Pittsburgh, PA**

November 2013-March 2015

- All responsibilities of Science Education Specialist below, with additional responsibilities of -
- Manage staff, interns and volunteers
- Research potential funding sources and write grant proposals
- Develop and manage budgets
- Design permanent, interactive visitor exhibits
- Develop and provide professional development for K-12 teachers and administrators

**Science Education Specialist, Phipps Conservatory and Botanical Gardens, Pittsburgh, PA**

May 2012-November 2013

- Develop curriculum for inquiry-based, participatory youth STEM/ STEAM education programs with sustainability themes
- Instruct youth programs for students age two to teen and multi-generational groups
- Develop and instruct communication training workshops for scientists
- Produce an outreach website ([phippsbotanyinaction.org](http://phippsbotanyinaction.org))
- Develop and provide training workshops for volunteers
- Plan and oversee program protocols and procedures including communications and partnerships with schools
- Create assessment tools and evaluate programs
- Provide outreach through web and social media platforms

- Assist marketing team in the design of educational and promotional materials
- Organize or assist with the organization and implementation of special events

**Contract Naturalist**, Baltimore Woods Nature Center, *Marcellus, NY* December 2009-March 2012

- Developed outdoor education activities for youth and families
- Led hands-on nature exploration activities for youth and family events
- Developed personalized nature-based youth birthday parties based on parent requests

**Student Teacher**, C.W. Baker High School *Marcellus, NY* September 2011-November 2011

- Planned, instructed and evaluated 9<sup>th</sup> grade *Biology* and 12<sup>th</sup> grade *Field Biology* courses

**Student Teacher**, Danforth Middle School, *Syracuse, NY* February 2011-April 2011

- Planned, instructed and evaluated 7<sup>th</sup> and 8<sup>th</sup> grade *Science* courses in an inclusive, urban setting

**Graduate Teaching Assistant**, SUNY ESF, *Syracuse, NY* August 2009-May 2010, January 2011-May 2011

- Assisted with curriculum development, instruction and evaluation of undergraduate courses including *Introduction to Environmental Interpretation, Principles of Interpretive Design, Museum Education* and *Animal Behavior*

**Instructor**, SUNY ESF, *Syracuse, NY* August 2010-December 2010

- Independently planned and taught the undergraduate course *Interpreting Science through Art*
- Supervised Undergraduate Teaching Assistants

**Educator**, Onondaga County Public Libraries, *Syracuse, NY* May 2010-August 2010

- Independently created and taught a youth environmental education program for diverse student groups at libraries across Onondaga county
- Wrote grant proposals, developed budget, created marketing and program materials

**Volunteer Science Teacher**, World Teach, *Guyana, South America* August 2007-July 2008

- Ran secondary school science department including curriculum development, lesson planning and instruction of 7<sup>th</sup>-10<sup>th</sup> grade *Integrated Science* classes
- Initiated and ran student art club, swim team and environment/leadership club

**Environmental Education Intern**, Baltimore Woods Nature Center, *Marcellus, NY*, 2009

**Seasonal Camp Counselor**, Rosamond Gifford Zoo, *Syracuse, NY*, 2009

**After-School Program Instructor**, YMCA of Ithaca and Tompkins County, 2007

**Environmental Educator**, Cayuga Nature Center, *Ithaca, NY*, 2006-2007

## Presentations

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North American Association for Environmental Education 2014 annual Conference: *Who's Teaching Who?: Simultaneous Education for Scientists and the Public.*

Pennsylvania Association of Environmental Educators 2014 annual conference: *Cute Critters and Crazy Cartoons: Using Human and Animal Characters to Teach Botany.*

North American Association for Environmental Education 2013 annual Conference: *Changing Behavior Through Creative Reuse: Using "Trash" Materials in Programming.*

American Public Gardens Association 2013 annual Conference: *From Instruction to Interpretation: Evolving a Botany Research Program to Help PhD Student Field Scientists Connect their Research to the Lives of the Public.*