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Education

M.Ed., Curriculum and Instruction | University of Illinois | Champaign, IL 2002
B.S., Ecology, Ethology, and Evolution | University of Illinois | Champaign, IL 1998

Professional Experience

Director of Curriculum Development CT-STEM Project | [Northwestern University](http://www.northwestern.edu) | Evanston, IL, USA 2016 – 2019

- Co-Developed and coached implementation of multiple science units with 16 teachers across 3 high schools incorporating computational thinking practices
- Managed the design, development, and administration of [CT-STEM](#) interactive e-learning website with over 200 teachers registered
- Managed 10-12-person curriculum team consisting of graduate and undergraduate students
- Assisted in the design and implementation of multiple professional developments for partner teachers
- Designed and implemented summer research experience for 4 teachers over 2 consecutive summer workshops
- Member of [CCL Lab](#), [TIDAL Lab](#), and [CT-STEM Project](#) and CT-STEM 5 person steering committee
- Presented at Computational Thinking workshop at 2016 NSTA Conference in Nashville

Science Teacher | [International School of Panama](#) | Panama City, Panama 2013 - 2015

- Taught Biology, Physics, and IB Environmental Systems and Societies for grades 9-12
- Utilized Canvas, Google sites, and other technologies to facilitate interaction with students

Science Teacher | [Uruguayan American School](#) | Montevideo, Uruguay 2011 - 2013

- Taught General Science, Life Science, Physical Science, Biology, and AP Biology for grades 6-12
- Utilized PowerSchool, Google sites, and other technologies to differentiate instruction

IB MYP Curriculum Coordinator | [The Codrington School](#), Barbados 2010 – 2011

- Assisted and trained teachers on administration of IB Middle Years Program curriculum
- Served as teacher mentor for new/inexperienced teachers
- Involved in the integration of Moodle, ManageBac, Wikis, and other digital tools in instruction

Science Teacher | [The Codrington School](#) | Barbados 2008 – 2011

- Taught Technology, Integrated Science (Biology, Chemistry, Physics), and IB Diploma Biology
- Developed curriculum for all secondary school sciences and implemented annual secondary school science fair

Area Science Instructional Specialist | Chicago Public Schools | Chicago, IL 2007 – 2008

- Served as instructional coach to over 30 new and freshman level teachers at over 20 public high schools
- Planned and implemented professional development for over a 100 teachers and administrators in curriculum planning, data analysis, technology integration, literacy, and school improvement

Science Teacher | Hyde Park Academy | Chicago Public Schools | Chicago, IL 2004 – 2007

- Served as Head of Science Department and IB MYP Personal Project Manager for a school of 2000 students
- Taught Biology, Environmental Science, IB MYP Chemistry

Biology Teacher | York Alternative HS | Chicago Public Schools | Chicago, IL 2002 - 2004

- Taught and mentored student inmates located within the Cook County Department of Corrections
- Taught in after-school programs: Evening High School, General Education certification, Adult Literacy, and Computer classes to both student and adult inmates

Technology Consultant | Stratton Elementary | Champaign, Illinois 2001-2002

- Served as troubleshooter for technology and computer related equipment
- Instructed teachers in the usage and maintenance of educational technology

Graduate Teaching Assistant University of Illinois, College of Education Champaign, IL	2001-2002
<ul style="list-style-type: none"> Taught classes of technology integration in education to pre-service teachers Instructed pre-service teachers in the development of a website and online portfolio 	
Department Webmaster University of Illinois, College of Education Champaign, IL	1999-2002
<ul style="list-style-type: none"> Rebuilt departmental website and integrated it into the college intranet Built and maintained websites for professors within the department 	
Research Biologist University of Illinois Cancer Center Chicago, Illinois	1998-1999
<ul style="list-style-type: none"> Conducted scientific research using current techniques in cancer biology Worked on the formation of a human tumor bank and procurement facility 	

Certification

Illinois Secondary Teaching Certification	2002
<ul style="list-style-type: none"> HS (9-12) Biology, Botany, Chemistry, General Science, Physics, and Zoology MG (6-8) Biological Science, General Science, Language Arts, and Physical Science 	

Courses and Training

IB Diploma (Science) Montezuma, New Mexico	2004
IB MYP Summer Institute (Science) Chicago, Illinois	2005
IB MYP Level II (Science) Norfolk, Virginia	2005
IB MYP Level III (Science) Montreal, Canada	2005
IB Diploma Level II (Biology) Berlin, Germany	2010
IB Diploma Level III (Biology) online course	2012
AP Biology Inquiry Labs online course	2012
IB Diploma Level II (Environmental Systems and Societies) Montezuma, New Mexico	2013
Powerful Tools for Teaching and Learning: Web 2.0 Tools online course	2014
Differentiation: A strategy for all students online course	2015
Design of Technological Tools for Thinking and Learning (LS 426) Northwestern University	2016
Annual Educational Coaching Conference Northwestern University	2016
Google Classroom online course	2017
e-Learning Ecologies: Innovative Approaches to Teaching and Learning for the Digital Age online course	2018
The Ultimate Guide to Game Development with Unity online course	2018
The Odin Project	2019
Build Responsive Real-World Websites with HTML5 and CSS3 Udemy online course	2019
The Complete 2019 Web Development Bootcamp Udemy online course	2019
Automate the Boring Stuff with Python Programming Udemy online course	2019
JavaScript Essentials Udemy online course	2019
Python Basics for Data Science EdX online course	2019

Publications

- Arastoopour Irgens, G., Dabholkar, S., Bain, C., Woods, P., Hall, K., Swanson, H., Horn, M., & Wilensky, U. (in review). Modeling and Measuring Students' Computational Thinking Practices in Science. *Journal of Science Education and Technology*
- Swanson, H., Arastoopour Irgens, G., Bain, C., Hall, K., Woods, P., Rogge, C., Horn, M., Wilensky, U. (2018). [Characterizing Computational Thinking in High School Science](#). In Kay, J. & Luckin, R. (Eds.), *Rethinking Learning in the Digital Age. Making the Learning Sciences Count: Proceedings of the 13th International Conference of the Learning Sciences Vol. 2*, 871-878

Technical Skills

- OS:** Mac iOS, Windows, Android/Chrome, Ubuntu
- Software:** HTML5, CSS3, Bootstrap 4, JavaScript, NetLogo, jQuery, Git, Office, Visual Studio, Virtual Box, Google Classroom, Canvas, Moodle, Scratch, Unity, Video/Audio editing, e-learning tools
- Hardware:** Build and repair of computers, Virtual Reality (Oculus), Raspberry Pi