

Aaron Sams
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EDUCATIONAL EXPERIENCE

Texas Tech University, Ph.D. Student Lubbock, TX (In-Progress)
Curriculum and Instruction – STEM Education

Biola University, M.A.Ed. La Mirada, CA (2004)
Classroom Instruction

Biola University, B.S. La Mirada, CA (1999)
Biochemistry

PROFESSIONAL EXPERIENCE

- August. 2017 – present **Instructor of Education**, Saint Vincent College, Latrobe, PA
- *Supervising and advising undergraduate student teachers*
 - *Developing and teaching courses in instructional design, STEM Education, and instructional technology.*
 - *Providing faculty professional development with technology*
 - *Creating LMS training modules for faculty*
- January 2013 – Present **President**, Sams Learning Designs, Pittsburgh, PA
- *Direct and manage my own consulting and instructional design firm through which I provide individual, school, district, and university professional development;*
 - *Give conference keynote sessions and workshops; develop courses based on the flipped learning concept, science education, and instructional design.*
- August. 2014 – May 2017 **Lecturer**, Saint Vincent College, Latrobe, PA
- *Supervising and advising student teachers*
 - *Developing and teaching courses in instructional design, STEM Education, and instructional technology.*
- June 2012 – August 2014 **Director of Digital Learning**, Reformed Presbyterian Theological Seminary, Pittsburgh, PA
- *Developed a distance learning program from the ground up using funds generated from various grants.*
 - *Worked with professors and trained them to operate in an online and blended educational environment.*
 - *Purchased, installed and operated all audio and video equipment for lecture capture and live streaming of courses.*
 - *Managed Moodle LMS and Empower student data management system*
 - *Oversaw web development and marketing for the distance learning program.*
 - *Developed and managed a digital admissions tracking system.*

- August. 2006 – June 2012 **Science Teacher**, Woodland Park High School, Woodland Park, CO
- *Classroom teacher*
 - *Science Olympiad Coach*
- August. 2005 – July 2006 **High School Credit Recovery Teacher**, Mount San Antonio College, Walnut, CA
- *Chemistry teacher*
- August. 2001 – June 2006 **Science Teacher**, Los Altos High School, Hacienda Heights, CA
- *Classroom teacher*
 - *Science Olympiad Coach*
- January 2000 – December 2000 **Adjunct Instructor**, Biola University, La Mirada, CA
- *Classroom Instructor*
 - *Laboratory Instructor*

TEACHING CERTIFICATION

Colorado State Teacher Certificate – Secondary Science

California Teacher Certificate – Secondary Chemistry, Secondary General Science

AWARDS

2013 Finalist, The Brock Prize

2013 Tech & Learning, 2013 Most Influential in edtech Top 10 List

2009 Presidential Award for Excellence in Math and Science Teaching

ADDITIONAL TRAINING OR CERTIFICATIONS

Crisis Management Team

RESEARCH & GRANTS

McCune Foundation (anonymous)	\$250,000	2013
<i>RPTS Distance Learning Project</i>		
McCune Trust (anonymous)	\$100,000	2013
<i>RPTS Distance Learning Project</i>		
Chatlos Foundation	\$10,000	2012
<i>RPTS Distance Learning Project</i>		
QWEST Communications	\$10,000	2009 & 2010
<i>Classroom Instructional Hardware and Software</i>		
Morgridge Family Foundation	\$50,000	2011
<i>Woodland Park High School Science Department Netbook Project</i>		

PEER REVIEWED PUBLICATIONS

Articles

- Sams, A. J. & Aglio, J. (2016). The second act of flipping. *School Administrator*, 73(11), 20-26.
- Bergmann, J., & Sams, A. (2014). Flipping for mastery. *Educational Leadership*, 71(4), 24-29.
- Sams, A., & Bergmann, J. (2013). Flip your students' learning. *Educational Leadership*, 70(6),

16–20.

Bergmann, J., & Sams, A. (2012). Before you flip, consider this. *Phi Delta Kappan*, 94(2), 25.

Bergmann, J., & Sams, A. (2008). Remixing chemistry class. *Learning & Leading With Technology*, 36(4), 22–27.

Book Publications:

Bergmann, J., & Sams, A. (2015). *Flipped Learning for Elementary Instruction*. Eugene, OR; Alexandria, VA: ISTE.

Bergmann, J., & Sams, A. (2015). *Flipped Learning for Social Studies Instruction*. Eugene, OR; Alexandria, VA: ISTE.

Bergmann, J., & Sams, A. (2015). *Flipped Learning for English Instruction*. Eugene, OR; Alexandria, VA: ISTE.

Bergmann, J., & Sams, A. (2015). *Flipped Learning for Science Instruction*. Eugene, OR; Alexandria, VA: ISTE.

Bergmann, J., & Sams, A. (2015). *Flipped Learning for Math Instruction*. Eugene, OR; Alexandria, VA: ISTE.

Bergmann, J., & Sams, A. (2014). *Flipped Learning: Gateway to student engagement*. Eugene, OR.; Alexandria, VA.: ISTE.

Bergmann, J., & Sams, A. (2012). *Flip your classroom: reach every student in every class every day*. Eugene, OR.; Alexandria, VA.: ISTE ; ASCD.

Book Contributions:

Chapter Contribution

Sams, A. J. (2013). Flipped classroom meets mobile learning. In Berge, Z. L., & Muilenburg. (Eds.), *Handbook of mobile learning*. (pp. 259-267). New York: Routledge.

Chapter Contribution

Sams, A. (2012). Der Flipped“ Classroom. In Handke, J., (Ed.), *Das inverted classroom model: Begleitband zur ersten deutschen ICM-Konferenz*. München: Oldenbourg Wissenschaftsverlag.

PRESENTATIONS

2018

PETE&C, Hershey, PA, Conference Presentation

ECET2, Princeton, NJ, Keynote Speaker

ASCD, Boston, MA, Presentation

FlipTechNJ, SOME CITY, NJ, Keynote Speaker

2017

PETE&C, Hershey, PA, Conference Workshop

Tulahoma Public Schools, Tullahoma, OK, Workshop
Shady Side Academy, Pittsburgh, PA, Keynote Speaker, Workshop
Project Zero, Pittsburgh, PA, Presentation
ISTE, San Antonio, TX, 2 presentations
PA Keystone Technology Innovators Summit, Shippensburg, PA
STEM Summit, Downingtown, PA, Keynote Speaker
Pennsylvania Science Teacher Association, Presentation

2016

Flipped Learning Forum, Sao Paulo and Rio de Janeiro, Brazil
PA Keystone Technology Innovators Summit, Shippensburg, PA
ISTE, Denver, CO
FlipCon Spain, Zaragoza, Spain
ASCD Atlanta, Conference Presentation
National Science Teacher's Association, Presentation
U.S. Department of Education, #GoOpen Forum, San Francisco, CA
Central Community Schools STEM Forum, DeWitt, IA

2015

Shanghai International Magnolia Teaching Forum, Keynote, *Changed Learning for a Better Future*
Chung Hsin Foundation, Taiwan, Keynote, *How Flipped Learning Helps Students to Learn*
Erasmus and Keilir, Flipped Learning In Praxis Conference, Reykjavik, Keynote
ASCD Houston, TX, Presentation
ISTE Philadelphia, PA, Presentation
Blackboard World, Washington, DC, K-12 Track, Keynote
FlipCon15, East Lansing, MI, Keynote
Chem Ed 2015, Atlanta, GA, Keynote, *Confessions of a Former Chemistry Teacher*
FlipConTX, Allen, TX, Keynote
PETE&C, Hershey, PA, *To Flip or Not to Flip*

2014

Commonwealth Magazine Education Foundation, International Reading Education Forum,

Taipei, Keynote

Institute for Creative Learning, Mahidol University, Bangkok, Keynote

ISTE Atlanta, *Flip Your Learning: The intersection of content, curiosity, and relationships*

FlipCon14, Pittsburgh, PA, Keynote

CanFlip14, BC, Keynote

ASCD Los Angeles, *Foundations of Flipped Learning*

ADEC Keynote, Abu Dhabi, United Arab Emirates, *Flipped Learning*

PETE&C, Hershey, PA, *Getting Started With Your Flipped Classroom*

BETT Show, London, *Flipped Learning: Ignite student curiosity for deeper understanding*

Morgridge Family Foundation Share Fair, Orlando, FL: *Practical Uses of the Flipped Classroom Model to Increase Student Engagement*

2013

Union County College Professional Development, Keynote, Cranford, NJ, *Flipped Learning 101*

PAISTA, Sewickley, PA, *To Flip or Not to Flip*

Education in a Changing World Conference, Monte Vista Christian School, Featured Speaker, *Flipped Classrooms for Beginners*

Education in a Changing World Conference, Monte Vista Christian School, Featured Speaker, *To Flip or Not To Flip*

Learning@Lovejoy, Lovejoy, TX, *Through the Flipped Classroom*

FLIP Learning Workshop, Carnegie Mellon University, Keynote

2nd Annual Flipped Class Conference, Allen, TX, Keynote, *Through the Flipped Classroom*

ISTE San Antonio, *Through the Flipped Classroom: Transformation from the bottom up!*

ISTE San Antonio, Birds of a Feather, *Open Conversation about Flipped Learning*

FlipCon13, Stillwater, MN, Keynote, *The State of the Flipped Classroom*

NSTA San Antonio, *To Flip or Not to Flip*

ASCD Chicago, *Flip Your Class: Start small, start here*

ASCD Chicago, *Mastery Learning Model: Students in Charge of Learning*

Cleveland PBS Ideastream, *Achieving Mastery Learning Through the Flipped Learning Model*

ECOT, Keynote, Columbus, OH

PETE&C General Session, Hershey, PA, *The Flipped Classroom: Why all the hype?*

TED-Active, Professional Development Workshop with TED-ED

Faculty Conference on Classroom Salon, Carnegie Mellon University, Presenter

BETT Show, London, Keynote, *The Flipped Classroom: Why all the hype?*

BETT Show, London, Panelist, *SMART Transformational Learning Summit with Lord Jim Knight*

2012

TLI Tech Summit, West Chester, NY, Keynote, *The Future of the Flipped Classroom*

TIES, Minneapolis, MN, Featured Speaker

TRETC, Pittsburgh, PA, Featured Speaker

Learning@Lovejoy, Lovejoy, TX, The Many Faces of the Flipped Classroom

BLC, Boston, MA, *The Future of the Flipped Classroom*

EduSTAT, ID, Presentation

ISTE San Diego, *The Future of the Flipped Classroom*

ISTE San Diego, *The Many Faces of the Flipped Classroom (Panel Discussion)*

National Charter School Conference, Minneapolis, MN, Speaker,

FlipCon12, Chicago, Keynote, *The Future of the Flipped Classroom*

Intel International Science and Engineering Fair Educator Academy, Featured Speaker,
Pittsburgh, PA, *Flipped Learning in STEM Classrooms*

MFF Share Fair, Denver, CO, *The Future of the Flipped Classroom*

TED-Active, Consultant and Alpha Tester, TED-ED Website

Idaho Board of Education, Presentation

2011

Colorado Association of Science Teachers, Presentation, *The Flipped Classroom*

American Chemical Society, Denver, CO, *The Flipped Classroom in 20 Minutes*

Årets konferanse på Sandvika vgs, Sandvika, Norway, Featured Speaker, *Flip the Classroom*

BLC, Boston, MA, *The Flipped Classroom*

TIE, Copper Mountain, CO, *The Flipped Classroom*

ISTE Philadelphia, *The Flipped Classroom*

Blended Learning Conference, Woodland Park, CO, Keynote

MFF Share Fair, Denver, CO, *The Flipped Classroom*

ICM Conference, University of Marburg, Marburg, Germany, *The Flipped Classroom*

2010

Colorado Association of Science Teachers, Presentation, *The Blended Classroom Made Easy*

Touch 'n' Go Integrated Technology Conference, Cowichan Valley School District, Victoria, BC, *Teacher Created Video as a Teaching Tool*

ISTE Denver, Presentation, *Asynchronous Mastery Learning in a Hybrid Classroom*

ISTE Denver, Workshop, *Screencasting in the Classroom*

Blended Learning Conference, Woodland Park, CO, Keynote

Education Commission of the States, Featured Speaker, *Workshop on Digital Learning*

2009

CUE, San Jose, CA *Mastery Learning for the 21st Century*

TIE, Copper Mountain, CO, *Mastery Learning for the 21st Century*

ISTE Washington, D.C., Presentation, *Mastery Learning for the 21st Century*

ISTE Washington, D.C., Pre-conference workshop, *Mastery Learning in a Hybrid Classroom*

2008

Colorado Association of School Boards, Presentation, *21st Century Learning in Woodland Park Schools*

ISTE San Antonio, *Educational Vodcasting*

COURSES TAUGHT

Undergraduate

Science Teaching for Special and Early Learners

Physical and Cultural Geography for Teachers

Pre-Student Teaching

Student Teaching

Graduate

Foundations of STEM Education

Online Assessment and Technology Design

Assistive Technology for Differentiation and Disabilities

Current Issues and Trends in Education

Technology and the Local Church

COURSES DEVELOPED

Undergraduate

Science Teaching for Special and Early Learners

Physical and Cultural Geography for Teachers

Graduate

Foundations of STEM Education

Online Assessment and Technology Design

Assistive Technology for Differentiation and Disabilities

Current Issues and Trends in Education

Technology and the Local Church

PROFESSIONAL SERVICE

Hive Pittsburgh/Sprout Fund, Pittsburgh, PA Grant Review Committee Member	06/2013 – 6/2017
Flipped Learning Network, Arlington, VA http://flippedlearning.org Founder and Board Chair	06/2012 - 07/2015
TED-ED, New York, NY http://ed.ted.com Advisor	03/2012 - Present
Projects and Consulting: Challenger Learning Center, Wheeling Jesuit Uni., Wheeling, WV Course Designer/Consultant	06/2012
Reformation Bible College, Distance Learning Summit, Orlando, FL Consultant	07/2013
Carnegie Mellon University Computer Science Department, Consultant, Classroom Salon Project	09/2012-Present
Foundations of Flipped Learning, Pearson/FLN Professional Development Course Developer and Consultant	07/2012 - Present
PAEMST Colorado Review Committee	04/2011
W.H. Freeman Publishing, Chemistry Content Developer/Consultant	11/2010 - Present
Evangelical Christian Academy, Colorado Springs, CO Board Member at Large	12/2010 - 06/2012
Colorado Commission for Science Standards Revision, Co-Chair	12/2008 - 12/2009

PROFESSIONAL MEMBERSHIPS

International Society for Technology in Education (ISTE)
Association for Supervision and Curriculum Development (ASCD)
American Educational Research Association (AERA)
National Science Teachers Association (NSTA)
Pennsylvania Association for Education Communications and Technology (PAECT)
Pennsylvania Association of Colleges and Teacher Education (PAC-TE)