**VITA**

**Dennis DeBay**

Senior Instructor

University of Colorado Denver

School of Education & Human Development

Campus Address

CU Denver – School of Education and Human Development – Suite 646

1380 Lawrence St.

Denver, CO 80204

**EDUCATION**

**Date Degree Institution Subject**

08/13 Ph.D Boston College Math (STEM) Curriculum & Instruction

05/08 M.Ed Boston College Curriculum & Instruction

05/02 AIT Cert ITI Applied Information Technology

06/01 BSc Dalhousie Uni. Mathematics & Music

**PROFESSIONAL EXPERIENCE**

**Dates Position**

01/2015 – present Senior Instructor

STEM Education

SEHD

University of Colorado Denver

06/2013 – 12/2015 Assistant Professor

Math Education

School of Education

Manhattanville College

12/2012 – 12/2015 Affiliate Faculty (online)

Education

School of Education

American College of Education

12/2015 – 6/2016 Affiliate Faculty

Biology

School of Arts and Sciences

Regis University

12/2010 – 12/2013 Mathematics Instructor and Research Fellow

Mathematics

College of Arts and Sciences

University of Massachusetts - Boston

**PEER REVIEWED PUBLICATIONS, EXHIBITIONS, PERFORMANCES, ETC.**

2018 Johnson, H. L., Dunlap, J. C., Verma, G., McClintock, E., **DeBay, D. J.,** & Bourdeaux, B. (2018). Video-Based Teaching Playgrounds: Designing Online Learning Opportunities to Foster Professional Noticing of Teaching Practices. *TechTrends*, 1-10

2017 **DeBay, D.** (2017). 21st Century urban renewal: Mathematical understanding of real-world graphical data using geospatial technologies. *Journal of Education.* 197 (1). 117-154..

2014 Patchen, A., **DeBay, D.**,Barnett,M. (2014). Engaging students in scientific inquiry: Success and challenges of engaging non-science majors in scientific inquiry. *Inquiry-Based Learning for Faculty and Institutional Development: A Conceptual and Practical Resource for Educators*. 14, 93-104.

2013 Mark, S., **DeBay, D.,** Zhang, L., Haley, J., Patchen, A., Wong, C., et al. (2013). Coupling social justice and out-of-school time learning to provide opportunities to motivate, engage and interest under-represented populations in STEM fields. *Career Planning and Adult Development, 29*(2), 93-104.

2012 Mitchell, R., & **DeBay, D.** (2012). Developing Augmented Mathematics Curricula for the Classroom. Learning and Leading with Technology, September, 2012.

**PEER REVIEWED BOOKS & BOOK CHAPTERS**

2016 **DeBay, D.** J., Patchen, A., Cruz, A. C. V., Madden, P. E., Xu, Y., Houle, M., & Barnett, M.  Coupling Geospatial and Computer Modeling Technologies to Engage High School Students in Learning Urban Ecology.(2016) *Improving K-12 Stem Education Outcomes through Technological Integration*. Eds. Urban, Michael J. and David A. Falvo. Hershey, PA: IGI Global, 2016. 235-58.

2012 **DeBay, D. J**., Haley, J., Mark, S., Barnett, M., Anderson, A., Strauss, E., . . . Wong, C. (2012). Engaging youth in visualizing sustainable urban plans using geographic information systems coupled with computer visualization. In A. Wals, P. Corcoran & H. Brandon (Eds.), Learning for Sustainability in Times of Accelerating Change: Wageningen Academic Publishers. Springer, NY.

**GRANTS FUNDED**

*Internal*

2018 *Technology and Stories, Math for all.* PI: **Dennis DeBay**, SEHD Faculty Development Gr. Grant. REC $1,000 $1000, funded

2017 *Video Noticin.* PI: **Dennis DeBay**, SEHD Faculty Development Gr. Grant. REC  
 $750 $750, funded

**GRANTS UNFUNDED**

*External*

2018 *Wonder in Math Education* PI: **Dennis DeBay**. Digital Pedagogy Lab. $3,000, declined.

*Internal*

2017 *Video Noticing.* PI: **Dennis DeBay**, CU Denver. $3,000, declined.

**GRANTS IN REVIEW**

*External*

2018 *Public Data for Public good.* PI: **Dennis DeBay** Co-PI: Shea Swauger, Mike Ferrara.  
 NSF, REC$300,000: $300,000 in review.

*Automation in STEM Education.* PI: **Mike Barnett**; NSF, REC$300,000: $300,000 in   
 review.

**PEER REVIEWED PRESENTATIONS AT MEETINGS/CONFERENCES – Since arriving at CU Denver**

2018, Portugal **DeBay, D. (**June, 2018) “Digital Stories:” Digital Tools in Math Education  
 Conference, Lisbon, Portugal.

2018, Boston **DeBay, D. (**May, 2018) “Technology and Stories: A way to Mathematics   
 for all” MATSOL Conference, Boston, MA.

2017, Denver **DeBay, D.** (September, 2017) “Video Noticing for Math Educators”   
 Colorado Council of Teachers of Mathematics Conference, Denver.

2017, Denver **DeBay, D.** (September, 2017) “Technology and Stories: A way to  
 Mathematics for all” Colorado Council of Teachers of Mathematics.  
 Conference, Denver.

2016, Malaysia **DeBay, D. (**April, 2016) "21st Century Urban Renewal: Mathematical   
 Understanding of Real-World Graphical Data Using Geospatial   
 Technologies." International Conference on Education and High Order   
 Thinking Skills. Malaysia

2015, Boston **DeBay, D.** (April, 2015). *Exploring Students Use of GIS for meaningful,   
 mathematical problem polving.* Paper accepted. The National Councit of   
 Teachers of Mathematics Annual Meeting (NCTM), Boston, MA.

**SEMINARS/WORKSHOPS PRESENTED**

2018, CU Denver DeBay D. (2018). Wonder of Writing. *TinquStudio Event..*

**PROFESSIONAL ORGANIZATIONS**

* AERA, 2010-present
* NCTM, 2009-present
* CCTM, 2018-present

**PUBLICATIONS/CREATIVE WORKS IN PREPARATION**

In Press

**DeBay, D., Terrell, K** (Stories and Technology: Gateway to Mathematics for All. *Journal Digitial Learning in Teaching.*

Under Review

DeBay, D.**(Under Review).**21st Century urban renewal: Understanding graphical interpretations of data using geospatial technologies.Canadian Journal for Science, Mathematics, and Technology Education**.**

**COURSES TAUGHT at CU DENVER**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course and Number** | **Level** | **Department** | **Institution** |
| STEM Capstone, STME 4/5051 | Graduate | SEHD | CU Denver |
| Math for Elementary Teachers, MATH 3040 | Graduate & Undergraduate | SEHD | CU DEnver |
| Elementary Math Teaching I,  MTED 4/5002 | Graduate& Undergraduate | SEHD | CU Denver |
| Elementary Math Teaching II,  MTED 4/5003 | Graduate& Undergraduate | SEHD | CU Denver |
| Secondary Math Methods, MTED 4/5300 | Graduate | SEHD | CU Denver |
| Assessment & Equity in Math Ed 4/5301 | Graduate | SEHD | CU Denver |
| Geometric Reasoning,  MTED 5623 | Graduate | SEHD | CU Denver |
| Aspire Capstone, UEDU 5850 | Graduate | SEHD | CU Denver |
| Critique of Math Education, 5/7050 | Graduate | SEHD | CU Denver |
| Intro to Research, RSEM 5120 | Graduate | SEHD | Boulder Journey School |
| Planning to Learn, STME 4001 | Graduate | SEHD | CU Denver |
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**SERVICE**

2018 *Member,* Collaborative Council*, SEHD,* CU Denver

*Member,* Teacher Ed Leadership Team (TELT)*, SEHD,* CU Denver

*Member,* Curriculum Committee*, SEHD,* CU Denver

*SEHD Liaison,* CU Denver Association for Lecturers and Instructors*,*CU Denver

*STEM Mentor*, JeffCo Professional Development School Meetings, CU Denver

*STEM Mentor*, STEM Education Program, *SEHD*, CU Denver

*Advisor,*  CU Teach Club, *SEHD*, CU Denver

*Reviewer*, UROP Grants, CU Denver

2017 *Member,* Collaborative Council*, SEHD,* CU Denver

*Member,* Teacher Ed Leadership Team (TELT)*, SEHD,* CU Denver

*Member,* Curriculum Committee*, SEHD,* CU Denver

*STEM Mentor*, JeffCo Professional Development School Meetings, CU Denver

*STEM Mentor*, STEM Education Program, *SEHD*, CU Denver

2016 *Member,* Collaborative Council*, SEHD,* CU Denver

*Member,* Teacher Ed Leadership Team (TELT)*, SEHD,* CU Denver

*Member,* Curriculum Committee*, SEHD,* CU Denver

*STEM Mentor*, JeffCo Professional Development School Meetings, CU Denver

*STEM Mentor*, STEM Education Program, *SEHD*, CU Denver

**OTHER PROFESSIONAL ACTIVITIES**

2017/2018 *Member,* Review of CDE Math Standards, CDE

2017 Reviewer, Missouri Math Standards, Missouri Department of Education