

# Anna Keune

## OFFICE ADDRESS

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## EDUCATION

Ph.D., Education (Learning Sciences)	Indiana University Bloomington, in progress
M.S., Education (Learning Sciences)	Indiana University Bloomington, 2017
M.A., New Media	Aalto University ARTS, 2010
B.A. (First Class Honours), Media Production	University of Applied Sciences Darmstadt and Cork Institute of Technology, 2007

## CURRENT APPOINTMENT

Graduate Research Assistant, “How Narrative Elements Can Shape Girls' Engagement in Museum-Based Engineering Design Tasks,” National Science Foundation, Principal Investigator: Dorothy Bennett, Indiana University, 2018 – present

Graduate Research Assistant, “Data Visualization Literacy: Research and Tools that Advance Public Understanding of Scientific Data,” National Science Foundation, Principal Investigators: Katie Börner, Kylie Pepler, Bryan Kennedy, Stephen Uzzo, and Joe Heimlich, Indiana University, 2018 – present.

Graduate Research Assistant, “Re-Crafting Mathematics Education,” National Science Foundation, Principal Investigators: Kylie Pepler and Melissa Gresalfi, Indiana University, 2015 – present.

## PRIOR RESEARCH EXPERIENCE

Graduate Research Assistant, “Maker Ed Open Portfolio Project,” Gordon and Melissa Moore Foundation, Principal Investigator: Kylie Pepler, Indiana University, 2013-2018.

Graduate Research Assistant, “DML Commons,” MacArthur Foundation, Principal Investigators: Mimi Ito and Kylie Pepler, 2015.

Visiting Scholar, University of California at Berkeley, “Learning Design - Design for Learning,” TEKES Finnish Funding Agency for Innovation, Principal Investigators: Teemu Leinonen, Jarmo Viteli, and Marko Turpeinen, Aalto University, 2013.

Visiting Scholar, University of California at Berkeley, “Local Ground,” REPRESENT Research Group, Principal Investigator: Tapan Parikh, 2013.

Researcher and Interaction Designer, “Innovative Technologies for an Engaging Classroom (iTEC),” EU 7th Framework, European Schoolnet (EUN), Work Package Lead: Teemu Leinonen, Aalto University, 2011-2014.

Researcher and Interaction Designer, “Open Learning Networks,” European Social Fund, Principal Investigator: Teemu Leinonen, Aalto University, 2011.

Researcher and Interaction Designer, “Visual Innovations for Inclusive Projects with Diverse Participants,” Academy of Finland, Principal Investigator: Antti Raike, Aalto University, 2010-2011.

Researcher and Interaction Designer, “Art University Copyright Advice,” Ministry of Education and Culture, Principal Investigator: Maria Rehbinder, Aalto University, 2010-2011.

Interaction Design Research Internship, “Nokia School Communicator India and Kenya,” Collaboration with Aalto University, Massachusetts Institute of Technology (MIT), Indian

Institute of Technology (IIT) Kanpur, and Rhode Island School of Design (RISD), Nokia Research Center, 2008.

Interaction Design Research Internship, “Mobile Immersion - Spatial Haptics (MoI),” Collaboration with Tampere University of Technology and Tampere University, Nokia Research Center, 2008.

## RESEARCH INTERESTS

Broadening Participation in STEM Education, Materiality of Learning, Maker Education, Computer Science Education, Constructionism, Qualitative Research, Mediated Discourse Analysis

## HONORS AND AWARDS

### External

- 2019 Systers Pass It On Award, AnitaBorg.org, \$1000  
*(Re)examining the Materiality of STEM Learning Through Fabric-based Computing*
- 2018 International Conference of the Learning Sciences 2018 Doctoral Consortium, \$2000  
*Fabric-based Computing: New Materials for Learning Computer Science*
- 2015 Special Award for Educational Engagement from Media, sure! But secure. Competition of Teachtoday, Deutsche Telekom, \$500  
*Open Portfolio Project*
- 2015 FabLearn 2015 scholarship, Stanford University  
*Flexibility to learn: Material artifacts in makerspaces.*
- 2012 1st Place winning software application for TeamUp, eEemeli2012, Apps4Learning, Finland, €500

### Internal

- 2018-2019 Provost’s Travel Award for Women in Science, \$1400
- 2018 Frieda Alice Renfro Fellowship 2018-19, Indiana University Bloomington, \$900
- 2018 Counseling and Educational Psychology Trentham Travel Award (ICLS 2018), Indiana University Bloomington, \$400
- 2017 Internal Grant to host annual LSGS Conference, awarded Barbara C. Jacobs Chair and the Center for Research on Learning and Technology, Indiana University Bloomington, with Chris Georgen, \$3500
- 2017 Carole A. Ames Fellowship 2017-18, Indiana University, School of Education, Counseling and Educational Psychology, \$2000
- 2016-2019 CRLT Student Conference Travel Award, Indiana University Bloomington, \$1200
- 2016 Dr. Harrison Hedley Way Research Fellowship 2016-17, Indiana University, School of Education, Counseling and Educational Psychology, \$750
- 2014 Second People’s choice award for poster presentation, CEWiT Conference, Indiana University
- 2013 Faculty Fellowship 2013-16, Indiana University Bloomington, \$64,000

## COURSES TAUGHT

- 2018 Instructor of record, Educational Psychology of Elementary School Majors (P251), Indiana University Bloomington
- 2018 Instructor of record, Field Experience for Elementary School Majors (M101), Indiana University Bloomington

## TEACHING INTERESTS

Constructionism, Educational Psychology, Participatory Design, Materiality of Learning, Introduction to the Learning Sciences, Mediated Discourse Analysis

## PUBLICATIONS

### Refereed Journal Articles (J)

- J6. **Keune, A.**, Peppler, K., & Wohlwend, K. (online first, 2019). Recognition in makerspaces: Supporting opportunities for women to “make” a STEM career [Special Issue, 2019]. *Computers and Human Behavior*. 0(0), pp. 0-0.
- J5. **Keune, A.** & Peppler, K. (2019). Materials-to-develop-with: The making of a makerspace. *The British Journal of Educational Technology*, 50(1), pp. 280-293. doi: 10.1111/bjet.12702
- J4. Wohlwend, K., Peppler, K., **Keune, A.**, & Thompson, N. (2017). Making sense and nonsense: Comparing mediated discourse and agential realist approaches to materiality in a preschool makerspace. *Journal of Early Childhood Literacy*, 17(3), 444-462. doi: 10.1177/1468798417712066
- J3. D'Urzo, S., Foster, J., Keune, A., Peppler, K., & Stutzman, A. (2016). Makerspaces: Providing Pennsylvania practical prefiguration. *Techniques* 91(6), pp. 25-27.
- J2. Leinonen, T., **Keune, A.**, Veermans, M., & Toikkanen, T. (2016). Mobile apps for reflection in learning: A design research in K-12 education. *British Journal of Educational Technology*, 47(1), 184–202. doi:10.1111/bjet.12224 (First published: 2014)
- J1. Raike, A., **Keune, A.**, Lindholm, B., & Muttilainen, J. (2013). Concept design for a collaborative digital learning tool for film post-production. *Journal of Media Practice*, 14(4), 307–329. doi:10.1386/jmpr.14.4.307\_1

### Manuscripts Under Review (M)

- M2. Peppler, K. & **Keune, A.** (accepted). “It helps create and enhance a community”: Youth motivations for making portfolios [Special Issue, 2019]. *Mind, Culture, and Activity*.
- M1. Peppler, K., **Keune, A.**, & Thompson, N. (forthcoming). Reclaiming traditionally feminine practices and materials for STEM learning through the modern maker movement. In Y. B. Kafai (Eds.) *Constructionism in context: Connected learning across technologies and spaces*.

### Works in Progress (P)

- P2. **Keune, A.** (in preparation). Bending matrices and performing programs: Characteristics of fiber crafts for the design of tangible manipulatives for computer science learning.
- P1. Peppler, K., **Keune, A.**, & Bender, S. (in preparation). Math across crafts: Embodied performance of multiplicative proportional reasoning through fiber crafts.

### Refereed Conference Proceedings (C)

- C16. **Keune, A.** & Peppler, K. (2019). Child-material computing: Material collaboration in fiber crafts. In K. Lund, E. Lavoué, G. P. Niccolai (Eds.), *A wide lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings: International Conference on Computer Supported Collaborative Learning (CSCL) 2019*. Lyon, France: International Society of the Learning Sciences.
- C15. Peppler, K., **Keune, A.**, Wohlwend, K., Rowsell, J., & Goldstone, R. (2019). Posthuman perspectives on learning. In K. Lund, E. Lavoué, G. P. Niccolai (Eds.), *A wide lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings: International Conference on Computer Supported Collaborative Learning (CSCL) 2019*. Lyon, France: International Society of the Learning Sciences. [pre-conference workshop]
- C14. Sedas, M., Peppler, K., **Keune, A.**, & Uttamchandani, S. (2019). Balancing the Scales: Implications of Model Size for Mathematical Engagement. In K. Lund, E. Lavoué, G. P. Niccolai (Eds.), *A wide lens: Combining Embodied, Enactive, Extended, and Embedded Learning in Collaborative Settings: International Conference on Computer Supported Collaborative Learning (CSCL) 2019*. Lyon, France: International Society of the Learning Sciences.
- C13. **Keune, A.** (2018). Fabric-based computing: New materials for learning computer science. In J. Kay & R. Luckin (Eds.), *Rethinking learning in the digital age: Making the Learning Sciences count: The*

- International Conference of the Learning Sciences (ICLS) 2018* (Vol. 3, pp. 1879). London, UK: International Society of the Learning Sciences. ISBN: 978-1-7324672-2-4
- C12. Peppler, K., **Keune**, A., & Whiting, J. (2018). Mobility, Diversity, and Openness: Distilling Design Principles for Equitable and Accessible Makerspaces. In J. Kay & R. Luckin (Eds.), *Rethinking learning in the digital age: Making the Learning Sciences count: The International Conference of the Learning Sciences (ICLS) 2018* (Vol. 3, pp. 1519-1520). London, UK: International Society of the Learning Sciences. ISBN: 978-1-7324672-2-4
- C10. **Keune**, A. & Peppler, K. (2017). Maker Portfolios as Learning and Community Building Tools Inside and Outside Makerspaces. In B. K. Smith, M. Borge, E. Mercier, & K. Lim (Eds.), *Making a Difference: Prioritizing Equity and Access in CSCL: The International Conference on Computer Supported Collaborative Learning (CSCL) 2017* (Vol. 2, pp. 545-548). Pittsburgh, PA: International Society of the Learning Sciences. ISBN: 978-0-9903550-2-1
- C9. Litts, B., Kafai, Y. B., Fields, D. A., Halverson, E. R., Peppler, K., **Keune**, A. Tissenbaum, M., Grimes, S. M., Change, S., Regalla, L., Telhan, O., & Tan, M. (2016). Connected making: Designing for youth learning in online maker communities in and out of schools. In Looi, C.-K., Looi, C. K., Polman, J. L., Cress, U., and Reimann, P. (Eds.), *Transforming Learning, Empowering Learners: The International Conference of the Learning Sciences (ICLS) 2016*, Vol. 2, pp. 1041-1047. Singapore: International Society of the Learning Sciences. ISBN: 978-0-09903550-8-3
- C8. **Keune**, A., Gomoll, A., & Peppler, K. (2015). *Flexibility to learn: Material artifacts in makerspaces*. In P. Blikstein, M. Berland, & D. A. Fields (Eds.), *Equity and Diversity in Making: FabLearn 2015 Conference on Creativity and Fabrication in Education*. Palo Alto, CA: Stanford University.
- C7. Toikkanen, T., & **Keune**, A. (2014). Designing Edukata: a method for educators to create learner-centered activities. In *EdMedia: World Conference on Educational Multimedia, Hypermedia and Telecommunications 2014* (pp. 1476-1483). Tampere, Finland: Association for the Advancement of Computing in Education (AACE).
- C6. McNicol, S., Lewin, C., **Keune**, A., & Toikkanen, T. (2014). Facilitating student reflection through digital technologies in the iTEC project: Pedagogically-led change in the classroom. In P. Zaphiris & A. Ioannou (Eds.), *Technology-Rich Environments for Learning and Collaboration: Learning and Collaboration Technologies (LCT) 2014* (Vol 2, pp. 297-308). Crete, Greece: Springer. DOI 10.1007/978-3-319-07485-6
- C5. **Keune**, A., Lindholm, B., Muttilainen, J., & Raika, A. (2013). Concept design for a collaborative digital learning tool for film post-production. In R. Smeds & O. Irrmann (Eds.), *Co-create 2013: The Boundary-Crossing Conference on Co-Design in Innovation* (pp. 601-612). Helsinki, Finland: Aalto University publication series. Science + Technology 15/2013, ISBN 978-952-60-5236-6
- C4. Toikkanen, T., & **Keune**, A. (2013). Ambient awareness of classroom activities. Designing mobile face-to-face group interactions workshop, In M. Korn, T. Colombino, M. Lewkowicz (Eds.), *13th European Conference on Computer Supported Cooperative Work* (pp. 109). Paphos, Cyprus.
- C3. **Keune**, A., & Leinonen, T. (2013). Square1 prototype: Build your own devices for collaborative learning. In *Interaktiivinen Tekniikka Koulutuksessa (ITK) 2013* (pp. 93-99). Hämeenlinna, Finland. ISBN 978-951-44-9202-0
- C2. **Keune**, A., Leinonen, T., & Purma, J. (2012). New media tools for reflection in learning. In R. Ørngreen (Ed.), *Designs for Learning: 3rd International Conference Exploring Learning Environments 2012* (pp. 101-103). Copenhagen, Denmark: Aalborg Universitet København. ISBN 978-87-995328-0-3
- C1. **Keune**, A., Leinonen, T., & Castro Pelayo, B. (2010). Filming a New Beginning: Prototyping a Critical Thinking Practice with Indian Families in Chennai. In *Lens Conference: Sustainability in Design: NOW*. Bangalore, India: Srishti Institute of Art, Design, and Technology.

### Refereed and Invited\* Chapters (CH)

- CH9. Wohlwend, K., **Keune**, A., & Peppler, K. (2019). We need it loud: Looking at preschool making from mediated and materialist perspectives. In M. Sakr & J. Osgood (Eds.) *Postdevelopmental approaches to early childhood art*. London, UK: Bloomsbury.

- CH8. **Keune**, A., Thompson, N., Peppler, K., & Chang, S. (2017). “My portfolio helps my making”: Motivations and mechanisms for documenting creative projects in out-of-school makerspaces. In L. Mikos & I. Eleá (Eds.), *Young and creative: Digital technologies empowering children in everyday life* (pp. 145–158). Gothenburg, Sweden: Nordicom.
- CH7. **Keune**, A. (2017). Portfolios (especially online or e-portfolios). In K. Peppler (Ed.), *The SAGE encyclopedia of out-of-school learning* (pp. 246-247). Thousand Oaks: Sage.
- CH6. Tan, V., **Keune**, A., & Peppler, K. (2017). The materiality of design in e-textiles. In S. Goldman & Z. Kabayadondo (Eds) *Taking design thinking to school* (pp. 180-194). New York, NY: Routledge.
- CH5. Wohlwend, K., **Keune**, A., Peppler, K. (2016). Design Playshop: Preschoolers Making, Playing and Learning with Squishy Circuits. In K. Peppler, Y. Kafai, E. Halverson (Eds.), *Makeology: Makerspaces as Learning Environments Volume 1* (pp. 83-96). New York, NY: Routledge.
- CH4. \* Toikkanen, T., **Keune**, A., & Leinonen, T. (2015). Edukata: A participatory design model for creating learning activities. In F. Van Assche, L. Anido, D. Griffiths, C. Lewin, & S. McNicol (Eds) *Re-engineering the uptake of ICT in schools* (pp. 41-58). Springer Open.
- CH3. \* **Keune**, A., & Toikkanen, T. (2013). Edukata™ - The Innovative Learning Activity Design Toolkit. *Designing the Future Classroom*, 1, 8. European Schoolnet (EUN Partnership AISBL).
- CH2. Corneli, J., Danoff, C., **Keune**, A., & Lyons, A. (2012). Peeragogy in action - peer produced learning. In K. Braybrooke, J. Nissilä & T. Vuorikivi (Eds.), *The open book - publication on open knowledge* (pp. 94–100). London, U.K.: The Finnish Institute.
- CH1. \* **Keune**, A. (2012). Appendix: Co-creation, co-governance and peer-to-peer production of public services – Seminar Report. In A. Botero, A. Paterson & J. Saad-Sulonen (Eds.), *Towards peer production in public services: Cases from Finland* (pp. 126–129). Helsinki, Finland: Aalto University. ISBN 978-952-60-4663-1

### Technical and Practitioner Reports (R)

- R10. Peppler, K., **Keune**, A., & Chang, S. (2018). *Open portfolios research brief series 2*. Oakland, CA: Maker Education Initiative.
- R9. Chang, S., **Keune**, A., Peppler, K., & Regalla, L. (2014). *Open portfolios research brief series 1*. Oakland, CA: Maker Education Initiative.
- R8. **Keune**, A., Toikkanen, T., & Leinonen, T. (2014). *D3.4: Edukata participatory design model – facilitator guide for designing learning activities*. Deliverable to the European Commission.
- R7. Toikkanen, T. & **Keune**, A. (2014). *D3.3: Final report on iTEC prototyping*. Deliverable to the European Commission.
- R6. **Keune**, A., Toikkanen, T., & Leinonen, T. (2012). *D 3.2: Report on design prototypes and challenges in education*. Deliverable to the European Commission.
- R5. **Keune**, A., & Toikkanen, T. (2012). *Learning stories and activities 4: Real word challenges*. Deliverable to the European Commission.
- R4. **Keune**, A., Toikkanen, T., & Leinonen, T. (2012). *Learning stories and activities 3: Design at school*. Deliverable to the European Commission.
- R3. **Keune**, A., Toikkanen, T., Purma, J., & Leinonen, T. (2011). *D3.1: Report on design prototypes and challenges in education*. Deliverable to the European Commission.
- R2. **Keune**, A., Toikkanen, T., & Leinonen, T. (2011). *Learning stories and activities 2: Learning individually and in teams*. Deliverable to the European Commission.
- R1. **Keune**, A., Toikkanen, T., Leinonen, T., & Purma, J. (2011). *Learning stories and activities 1: Outside expert/outdoor study*. Deliverable to the European Commission.

### Refereed Talks, Presentations, and Conference Workshops (T)

- T32. Peppler, K., **Keune**, A., & Thompson, N. (April, 2019). *E-Textiles: A Context for Advancing Theory, Design, and Assessment in the Learning Sciences*. SIG Learning Environments; Poster presented at the Annual Meeting of the American Educational Research Association (AERA), April 05-09, 2019, Toronto, Canada.
- T31. **Keune**, A., Wohlwend, K., & Peppler, K. (2018). *Technology-making children or technology making*

- children?* SIG-Writing and Literacies; Symposium presentation at the Annual Meeting of the American Educational Research Association (AERA), April 13-May 17, 2018, New York, NY.
- T30. **Keune, A.** & Peppler, K. (2018). *A self-made woman: Materiality of maker portfolio practices for STEM identity development*. SIG-Learning Sciences; Roundtable paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 13-May 17, 2018, New York, NY.
- T29. Peppler, K., **Keune, A.**, & Chang, S. (2018). *Open maker portfolios: A framework for assessment in makerspaces*. Division C, Section 3b: Technology-Based Environments; Poster presented at the Annual Meeting of the American Educational Research Association (AERA), April 13-May 17, 2018, New York, NY.
- T28. Peppler, K., **Keune, A.**, & Chang, S. (2018). *Youth motivations for open maker portfolios in school and out-of-school makerspaces*. SIG-Advanced Technologies for Learning; Poster presented at the Annual Meeting of the American Educational Research Association (AERA), April 13-May 17, 2018, New York, NY.
- T27. **Keune, A.** & Peppler, K. (2017). *Materiality of design in e-textiles*. In panel: Textile messages: Electronic textiles as disruptive designs and inclusive activities. Presented at the Digital Media and Learning Conference 2017 (DML), October 4-6, 2017, Irvine, CA.
- T26. Peppler, K., **Keune, A.**, Bender, S., & Thompson, N. (2017, April). *Math across crafts: Intersections of proportion with spatial visualization in crochet, knitting, and pleating*. Poster presented at the ADVANCE/GSE Program Workshop Broadening Participation: Intersectionality. October 8-10, 2017, Washington D.C.
- T25. Thompson, N., Bender, S., **Keune, A.**, Peppler, K., Samson, K., Saxena, P., Sedas, M., Uttamchandani, S. (2017, April). *“Good for you math”: Exploring women crafters’ comparisons of “craft math” to “school math”*. Poster at the ADVANCE/GSE Program Workshop Broadening Participation: Intersectionality. October 8-10, 2017, Washington D.C.
- T24. **Keune, A.**, Bender, S., & Sedas, M. (2017). *Knitting, sewing, crocheting: Craft endeavors around ratio and proportion*. Workshop facilitated at the Digital Media and Learning Conference 2017 (DML), October 4-6, 2017, Irvine, CA.
- T23. **Keune, A.** & Peppler, K. (2017). *Open portfolios: Collaboratively capturing rich learning through making*. Division C, Section 3b: Technology-Based Environments; Poster presented at the Annual Meeting of the American Educational Research Association (AERA), April 27-May 1, 2017, San Antonio, TX.
- T22. **Keune, A.** & Peppler, K. (2017). *“You have to make a makerspace.” Material design of an out-of-school tech-center*. Division C, Section 3a: Learning Environments; Poster presented at the Annual Meeting of the American Educational Research Association (AERA), April 27th-May 1st, 2017, San Antonio, TX.
- T21. **Keune, A.** (2016). *360° Makerspaces: designing youth-serving makerspaces using virtual reality snapshots*. Poster presented at the 1st Learning Sciences Graduate Student Conference (LSGSC), October 20-21st, 2016, Chicago, IL.
- T20. Bender, S., Chapman, K., Gresalfi, M., **Keune, A.**, Samson, K., Thompson, N., & Wisittanawat, F. (2016) *Re-crafting mathematics education: Exploring textile crafts as tangible mathematical manipulatives*. Workshop facilitated at the Digital Media and Learning Conference (DML), October 5-7th, Irvine, CA.
- T19. **Keune, A.**, & Peppler, K. (2016). *Open maker portfolios: Documenting and assessing making*. Presented at the Association for Authentic, Experiential and Evidence-Based Learning (AAEEBL) Midwest Regional Conference, May 11-12th, 2016, Notre Dame, IN.
- T18. **Keune, A.** & Peppler, K. (2016). *Expanding, re-configuring, & evolving: Design conjectures for equitable makerspaces*. Division C, Section 2b: Learning and Motivation in Social and Cultural Contexts; Poster presented at the Annual Meeting of the American Educational Research Association (AERA), April 8-12th, 2016, Washington, DC.
- T17. Bender, S., **Keune, A.**, Peppler, K., Thompson, N., Thoroughgood, L., & Whiting, J. (2016). *Mini maker faire*. Workshop facilitated at IST Conference, March 2016, Indiana University, Bloomington, IN.

- T16. Chang, S. & **Keune**, A. (Sept. 27th, 2015). *Capture it! Making open portfolios*. Workshop facilitated at FabLearn 2015 Conference, September 26th-27th 2015, Stanford University, CA.
- T15. **Keune**, A., & Thompson, N. (June 12th, 2015). *Design playshop: Expanding making with squishy circuits*. Workshop facilitated at the Digital Media & Learning (DML) Conference, Equity By Design, June 11th-13th, Los Angeles, CA.
- T14. Johnson, L., & **Keune**, A. (May 13th, 2015). *Co-creating a DML distributed, open, collaborative course*. Presented at the ALTfEst (Academic Learning Transformation) Conference, May 12th-14th 2015, Virginia Commonwealth University, Richmond, VA.
- T13. Wohlwend, K., Peppler, K., & **Keune**, A. (2015). *Design playshop model: Meaningful technology integration in early childhood classrooms using squishy circuits*. Division C, Section 3a: Learning Environments; Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 16-20th, 2015, Chicago, IL.
- T12. Bender, S., Buchholz, B., Kargin, T., **Keune**, A., Lu, Y. H., Peppler, K., Scott, J., Tan, V., Thompson, N., Whiting, J., & Wohlwend, K. (2015). *Mini maker faire*. Workshop facilitated at the IST Conference, March 6th 2015, Indiana University, Bloomington, IN.
- T11. **Keune**, A., & Thompson, N. (2014). *Squishy circuits in pre-school: Intersections of play, craft and circuitry*. Poster presented at the IU Center of Excellence for Women in Technology Conference (CEWIT): Techie Women have more, Bloomington, IN.
- T10. **Keune**, A., & VanWart, S. (2014). *Participatory design of open portfolio practices for young makers through hands-on making*. Workshop facilitated at the Project Zero Perspectives Conference, October 10-12th 2014, San Francisco, CA.
- T9. **Keune**, A., & Thompson, N. (2014). *Open portfolios: A hands-on discussion*. Workshop facilitated at World Maker Faire New York, September 2014, New York, NY.
- T8. **Keune**, A., & Toikkanen, T. (2014). *Edukata – Designing learner-centered activities together*. Poster at the Cumulus Conference “Design with the Other 90%: Changing the World by Design”, Johannesburg, South Africa.
- T7. **Keune**, A. (2014). *Edukata - Designing learner-centered activities together*. Workshop facilitated at the OpenEd Jam, July 25-27th 2014, San Antonio, TX.
- T6. **Keune**, A., McKay, C, Chang, S., & Peppler, K. (2014). *Prototype a design workshop for open maker portfolios*. Workshop facilitated at World Maker Faire Bay Area, May 2014, San Mateo, CA.
- T5. **Keune**, A., & Leinonen, T. (2013). *Square1: A collection of single-task dedicated learning devices*. Presented at the Interactive Technology in Education Conference (ITK), Hämeenlinna, Finland.
- T4. **Keune**, A. & Leinonen, T. (2013). *Square1 hypothesis: Building computational and collaborative learning tools in school*. Presented at the Interactive Technology in Education Conference (ITK), Hämeenlinna, Finland.
- T3. **Keune**, A., Purma, J., & Toikkanen, T. (2012). *TeamUp and other digital tools for reflection*. Poster presented at the Interactive Technology in Education Conference (ITK), Hämeenlinna, Finland.
- T2. **Keune**, A., Johnson, G., Lyons, A., Ricaurte, P., & Terzi, F. (2012). *Peeragogy handbook*. Workshop facilitated at the Open Knowledge Festival 2012, Helsinki, Finland.
- T1. **Keune**, A., & Leinonen, T. (2012) *New media tools for reflection*. Workshop facilitated the New Media Consortium Summer Conference (NMC 2012), Boston, MA.

### Invited workshops, presentations, and talks (I)

- I21. Keune, A., (2019). *Curiosity and Wonder*. Graduate Speaker, Indiana University Bloomington, School of Education Graduate Convocation, May 2019.
- I20. **Keune**, A. (2018). Guest lecture for Research Methods course by Dr. Lucinda Carspecken, Indiana University Bloomington, School of Education
- I19. **Keune**, A. (2018). Invited panelist for Global Gateway for Teachers, Indiana University Bloomington, School of Education.
- I18. **Keune**, A. (2016). *Maker portfolios: Capturing the rich learning of making*. Workshop provided for FabLearn Australia 2016 Conference, May 20th-21st 2016, Melbourne, Victoria, Australia. (Facilitated three times)

- I17. Rink, N., Chang, S., **Keune**, A., Flin, B., & Rose, B. (Jun. 10th, 2015). *Maker corps portfolio and Documentation Practices*. Invited speaker for Maker Ed webinar.
- I16. Peppler, K., Wohlwend, K., Buchholz, B.A., **Keune**, A., & Thompson, N. (May 1st, 2015). *Tell Your Studiocode Story*. Invited speaker for Studiocode webinar.
- I15. **Keune**, A. (Aug. 15th, 2015). *ToyStory: Remixing discarded playthings: Mini maker faire*. Workshop provided at the Indiana Connected Educators (ICE) Conference, August 15th 2015, Indiana University, Bloomington, IN.
- I14. Bowen, K., Johnson, L., **Keune**, A., Phillips, N., Rish, R., & Woodard, R. (Apr. 29th, 2015). *Co-design and collaboration in design based research: Stories from the field*. Co-host of DML Commons webinar series. Available at: [http://dmlcommons.net/my-calendar/?mc\\_id=32](http://dmlcommons.net/my-calendar/?mc_id=32)
- I13. Blum-Ross, A., Brough, M., Costanza-Chock, S., **Keune**, A., & Saad-Sulonen, J. (Apr. 29th, 2015). *How to approach participatory and community-based research/design*. Co-host of DML Commons webinar series. Available at: [http://dmlcommons.net/my-calendar/?mc\\_id=25](http://dmlcommons.net/my-calendar/?mc_id=25)
- I12. Bang, M., Bell, P., Johnson, L., & **Keune**, A. (Apr. 23rd, 2015). *Co-design and collaboration in design based research*. Co-host of DML Commons webinar series. Available at: [http://dmlcommons.net/my-calendar/?mc\\_id=26](http://dmlcommons.net/my-calendar/?mc_id=26)
- I11. Blum-Ross, A., Brough, M., **Keune**, A., Erbstein, N., & Sefton-Green, J. (Apr. 21st, 2015). *Practical, political, and professional considerations of community-based research on digital media & learning*. Co-host of DML Commons webinar series. Available at: [http://dmlcommons.net/my-calendar/?mc\\_id=20](http://dmlcommons.net/my-calendar/?mc_id=20)
- I10. Cantrill, C., Chang, S., Costa, B., **Keune**, A., Peppler, K., Prozzi, J., & Wolovich, B. (Mar. 4, 2015). *Open portfolio project (part 2): Documentation and making*. Invited speaker for Educator Innovators webinar. Available at: <http://educatorinnovator.org/webinars/documentation-and-making-part-2an-educator-innovator-webinar/>
- I9. Cantrill, C., Chang, S., **Keune**, A., Kolos, H., Ross, J., & Walker, J. (Feb. 25, 2015). *Open portfolio project (part 1): Learning from maker portfolios*. Invited speaker for Educator Innovators webinar. Available at: <http://educatorinnovator.org/webinars/learning-from-maker-portfolios-part-1an-educator-innovator-webinar/>
- I8. Cantrill, C., Chang, S., McKay, C., **Keune**, A., Kolos, H., & Ross, J. (Jan. 24, 2014). *"Open portfolio" - helping makers show off lifelong learning*. Invited speaker for Connected Learning webinar. Available at: <http://connectedlearning.tv/open-portfolio-helping-makers-show-lifelong-learning>.
- I7. Leinonen, T. & **Keune**, A. (2012). *Learning environments research group projects*. Media Lab Helsinki Demo Day.
- I6. **Keune**, A., Purma, J., & Toikkanen, T. (2012). *TeamUp a digital tool for small group collaboration*. Poster presented at the Media Lab Helsinki Demo Day.
- I5. Toikkanen, T., & **Keune**, A. (2012) *Learning activities: New ways of thinking about organizing teaching*. Workshop provided for the Virtuaaliopetuksen päivät 2012/Virtual Education Days 2012, Helsinki, Finland.
- I4. **Keune**, A. (2012). *My Learning Landscape*. Invited presentation at Teacher Seminar, Oulu, Finland.
- I3. Hyppä, K., & **Keune**, A. (2011). Visualization for scientific research. Workshop provided for the Meraka Institute, CSIR, Pretoria, South Africa. South Africa-Finland Knowledge Partnership for ICT (SAFIPA).
- I2. Purma, J. & **Keune**, A. (2011). *iTEC designing the future classroom*. Media Lab Helsinki Demo Day.
- I1. **Keune**, A. (2011). *Filming a new beginning: Designing a new media learning practice for and with Indian families*. Masters of Arts Exhibition, Helsinki, Finland

## GRANT WRITING EXPERIENCE (G)

- 2019 PIs: Kylie Peppler, Carolyn Rosé, Geoff Kaufman, Jim McCann. "ReCrafting Computer Science: Concretizing Participatory Machine Learning Through Tangible Fiber Crafts." Pending.
- 2018 PIs: Kylie Peppler, Jiangmei Wu. "Fabric Origami: New Materials for Learning Computer Sciences and Mechanical Engineering." \$7500. Materials-Based Research Grant, Center of Craft, Creativity, and Design. Funded.



2017 PIs: Kylie Peppler, Leigh Abts, Matthew J. Miller, Rosemary Reshetar, Jim Turner. “*Designing Alternative Portfolio Assessments to Strengthen Hispanic Participation in Engineering.*” \$2,339,919. NSF PIRE. Not funded.

## REGISTERED TRADEMARKS

T1. 2013 Edukata®, NP-Ratkaisut Oy, Helsinki, Finland.

## PROFESSIONAL SERVICE

### Reviewer

#### *Journals*

2019, 2018, 2016 Journal of Early Childhood Literacy  
2019, 2018 The British Journal of Educational Technology  
2018 Mind Culture and Activity Journal  
2016 International Journal for Designs for Learning  
2015 Instructional Science Journal

#### *Conferences*

2019, 2018 Connected Learning Summit  
2019 Computer Supported Collaborative Learning (CSCL)  
2019, 2015, 2014 FabLearn Conference  
2018, 2017, 2016 AERA Annual Meeting, SIG-LS  
2018, 2017 Interaction Design and Children Conference

### Conference Organization and Research Meetings

2017 Co-chair, 2nd Learning Sciences Graduate Student (LSGS) Conference, Indiana University Bloomington  
2017 Publicity co-chair, Conference on Discourse Analysis in Educational Research  
2017 Co-host, Open Portfolios National Working Group convening at the Gordon and Betty Moore Foundation, August 3-4, Palo Alto, CA. (Peppler, K., **Keune**, A., Chang S.).  
2016 Co-chair, 1st Learning Sciences Graduate Student (LSGS) Conference, University of Chicago  
2016 Co-host, Open Portfolios National Working Group convening at the Gordon and Betty Moore Foundation, November 4-5, Palo Alto, CA. (Peppler, K., **Keune**, A., Chang, S.).  
2014 Co-host, Open Portfolios National Working Group convening at the Gordon and Betty Moore Foundation, November 4-5, Palo Alto, CA. (Peppler, K., **Keune**, A., Chang, S. & Regalla, L.)  
2014 Co-host, Open Portfolios National Working Group convening at Indiana University, February 10-12th 2014, Bloomington, IN. (Peppler, K., **Keune**, A., McKay, C., & Chang, S.).  
2012 Participant, iTEC Project convening at the European Schoolnet, September 4th-6th, Brussels, Belgium. (Leinonen, T. & **Keune**, A.).

### Conference Session Chair

2018 International Conference of the Learning Sciences (ICLS)  
2017 Computer Supported Collaborative Learning (CSCL) Conference  
2016 Association for Authentic, Experiential and Evidence-Based Learning (AAEEBL) Midwest Regional Conference, *Section B – Professional Portfolios with Badges*, May 11-12th, 2016, Notre Dame, IN

## Committee Work

2018	Graduate representative, JSL Best Paper Award (ISLS) 2018
2017-present	Committee Member, ISLS Publications Committee
2015-2016	Member, International Advisory Board for Design Thinking of The College of William and Mary
2011-2014	Member, Howard Rheingold University, Peeragogy Project
2015-2018	Research Development and External Partnership Committee, Indiana University
2014-2018	Vice President & Treasurer, Web designer; Learning Sciences Graduate Student Association, Indiana University
2015-2016	Member, Women Empowering Success in Technology (WESiT) Scholars Committee
2015	Dissertation copy-editor, Frankfurt School of Finance & Management, Germany
2015	Master Thesis evaluator, Aalto University School of Arts, Design and Architecture, Finland
2010- 2011	Board member, Aalto Social Impact Association
2010-2011	Chair for Environmental Affairs and Development Cooperation, Aalto University Tokyo Student Association
2008-2009	President, Media Lab Helsinki Student Association

## Community Engagement

2015-2018	Craft mentor, Ground Floor Teen Center, Monroe County Public Library (MCPL), Bloomington, IN
2017-2018	Volunteer at The Project School, Bloomington, IN
03/2018	Best Buy + LRNG eTextiles (LilyPad and ArduBlocks), Workshop lead, St. Jude's Children's hospital, Memphis, TN
08/2017	Best Buy + LRNG eTextiles (LilyPad and ArduBlocks), Workshop provided for Boys and Girls Club of Bellevue, Bellevue, WA.
06/2017	LRNG eTextiles Workshop, Nora Elementary School, Indianapolis, IN
06/2017	Crafty Fiber Arts Camp, Workshop provided for Monroe County Public Library (MCPL), Bloomington, IN
2017	Crafty Fiber Arts Sessions provided for Monroe County Public Library (MCPL), Bloomington, IN
05/2016	Maker in Residence, E-textiles workshops provided for Lauriston Girls' School Melbourne, Victoria, Australia.
02-06/2016	Learning Sciences Consulting provided for the Imagination Foundation, LA, CA
09/2015	WonderLab Camp: LittleBits. Workshop lead, WonderLab Museum of Science, Bloomington, IN
08/2015	eTextiles Drop-In Workshop. Workshop provided for Makevention, Bloomington
06/2015	WonderLab First Friday Evening: Science of Art. e-Textiles workshop provided for WonderLab Museum of Science, Bloomington, IN
05/2015	<i>Make your own light up bookmark.</i> eTextiles workshop lead, Maker Days Summer 2015, Monroe County Public Library, Bloomington, IN
04/2015	<i>ToyStory: Remixing Discarded Playthings.</i> Toyhacking workshop lead, MakerDays 2015, Monroe County Public Library, Bloomington, IN
06/2014	<i>Laser Cutting for Children.</i> Workshop lead, Monroe County Public Library, Bloomington, IN
2012	Design Consulting provided for Safer NGO, Helsinki,
10/2010	Filming a New Beginning Video Workshop provided for Pudiyador Association for Community Empowerment, Chennai, India
2009	Workshop facilitator, Pudiyador Association for Community Empowerment, Chennai, India

## PROFESSIONAL MEMBERSHIP

American Educational Research Association (AERA)  
Learning Sciences Special Interest Group (SIG LS)  
International Society of the Learning Sciences (ISLS)

## CREATIVE PRODUCTIONS

- 2015-2018 360 makerspaces website: [www.360makerspaces.com](http://www.360makerspaces.com)
- 2015 Edukata website: <http://edukata.fi>, with T. Toikkanen and T. Leinonen
- 2014 Edukata overview video abstract: <https://vimeo.com/88934263>; with S. Vilmusenaho)
- 2014 Edukata Participatory Design Model – Facilitator guide for designing learning activities; with T. Toikkanen and T. Leinonen
- 2013 Edukata video abstract: <https://vimeo.com/82281460>; with S. Vilmusenaho
- 2012 Media Tools for Reflection in Learning (iTEC), video abstract: <https://vimeo.com/35777113>
- 2012 ReFlex: Online software tool for recording personal reflections of learning, piloted with 2000 classrooms across Europe, <http://reflex.aalto.fi/>; with T. Leinonen, T. Toikkanen, J. Purma
- 2012 Ambire: Online software tool for whole classroom reflection: <http://ambire.itec.smartlabs.mobi/>; with T. Leinonen, T. Toikkanen, J. Purma, M. Boyle.
- 2012 Designing Opportunities for Women in the Democratic Republic of Congo – A Workshop Kit; delivered to the Canadian NGO SAFER; with K. Hyypä.
- 2011 TeamUp: Online software tool for forming teams based on interests and for recording teamwork reflections, piloted with 2000 classrooms across Europe; <http://teamup.aalto.fi/>; with T. Leinonen, T. Toikkanen, J. Purma
- 2011 Filming a New Beginning, video abstract, <https://vimeo.com/31784924>
- 2011 LeMill – Introduction, video abstract, <https://vimeo.com/26008772>
- 2011 iTEC scenario: Recognizing Informal Learning (English), video abstract <https://vimeo.com/24463407>
- 2011 iTEC scenario: Outdoor Study Project, video abstract, <https://vimeo.com/24463474>
- 2011 iTEC scenario: Recognizing Informal Learning (Italian), video abstract, <https://vimeo.com/24461482>
- 2011 National Recordal Systems - Nikmas animation, video abstract, <https://vimeo.com/29857669>; with K. Hyypä
- 2010 Nokia.Expand, Video abstract, <https://vimeo.com/29452534>; with P. Banerjee, S. Kim, & I. Olander
- 2010 Filming a New Beginning – A Mobile Video Workshop for Children by Children. Guidebook for educators.
- 2008 Interactive installation at Argos Young Designers 2008, Stockmann, Helsinki. Group exhibition (05-06/2008).
- 2008 *Crowning Havis*. Interactive installation at the Havis Amanda Mon Amour – 100 years Havis Amanda Exhibition, Jugendsali, Helsinki. Group exhibition (05-09/2008)
- 2007 *I breathe what you breathe*. Interactive installation at the Media Night, University of Applied Sciences Darmstadt. Group exhibition. (12/2007)
- 2007 *I breathe what you breathe*. Interactive installation at Bachelor of Arts Exhibition, University of Applied Sciences Darmstadt. Group exhibition (06/2007)
- 2007 *16!*. Interactive installation at 603qm, Darmstadt. Group exhibition.

## LANGUAGES

German, English