

ALEKSANDRA (OLA) JACHTOROWICZ

LEARNING DESIGNER & SCIENCE COMMUNICATOR



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Address
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I bring 10 years of experience spanning the industries of science publishing, adult learning and development, informal STEM education, and life sciences strategic consulting. Across my roles, I have been driven by a love for science and a talent for clearly and elegantly structuring information. I look forward to applying the learning design skills I am developing in pursuit of my Ed.M. (including user testing, formative evaluation, and digital fabrication) in my next role.

WORK EXPERIENCE

Harvard Forest

Petersham, MA | September 2022-present

Data and Learning Design Specialist

- Develop interactive data visualization for *Buds, Leaves, and Global Warming* long-term ecological research (LTER) schoolyard ecology program

Harvard Graduate School of Education

Cambridge, MA | September 2022-present

Teaching Fellow, LDIT Core Experience

- Assist program leads Joe Blatt and Jal Mehta with planning and logistics
- Provide one-on-one support for students as needed

Belmont After School Enrichment Collaborative

Belmont, MA | September 2018-present

STEM Education Specialist

- Design and lead daily STEM programming to engage Burbank Elementary students (K-4) in problem-solving and inquiry through hands-on activities
- Develop and facilitate project-based workshops (6-10 weeks)
 - Secured investment for GoPiGo robotics platform to introduce *Robotics* (Gr. 4) workshop, building students' computational thinking
 - Created *Microbe Madness* (Gr. 3-4) and *Science of You* (Gr. 4) to expose older students to active areas of investigation (such as the microbiome) and real-world science practitioners
 - Created *Hexbug Mazes* (Gr. 1-2) and *Flight Engineering* (Gr. 1-2) to hone fine motor skills and growth mindset in younger students
- Lead Makerspace curriculum (Gr. 2-8) during February, April, and Summer Vacation Camps for 20+ students to design, code, construct, and tinker
 - 8 additional sign-ups for April directly referenced the February experience

During Covid-19 School Closure and Hybrid

- Launched microsite and created roadmap of necessary technology platforms for leadership to rapidly transition organization to virtual learning
- Developed and led virtual workshops combining social emotional learning (SEL), literacy, and STEM, reaching over 400 families in Belmont and surrounding towns
- Designed and delivered school day enrichments for 1st through 4th grades aligned to NGSS / MA STE Frameworks, sponsored by Belmont PTA

EDUCATION

2021 - 2023 (anticipated)

Ed.M., Learning Design, Innovation, and Technology

Harvard Graduate School of Education | Cambridge, MA

2008 - 2013

B.A., Biology

Boston College | Chestnut Hill, MA

PROJECTS

Science News in High Schools

Formative Evaluation

- Created evaluation instruments including stakeholder interviews, survey, and think-aloud protocol
- Delivered recommendations for expansion into community colleges

Wildtrack Design Practicum

- Delivered recommendations for increasing youth participation based on analysis of 21 top-performing citizen science mobile apps

Harvard Forest x UX/UI Workshop

- Initiated, developed, promoted, and co-facilitated 3 hour workshop for 25 graduate participants
- Provided client with participant-generated redesign pitches for digital K-12 science education resources

K-12 Climate Action School Model

- Designed interactive experience combining tangible interface with augmented reality to determine climate actions with greatest emissions impact

WORK EXPERIENCE CONTINUED

RAIN Group

Framingham, MA | December 2016 - April 2018

Instructional Designer and IP Developer

- Launched new Learning Management System (LMS) worldwide
 - Analyzed business needs for eCommerce integration, mobile compatibility, SCORM compliance, client sites, and manager reporting
 - Transitioned all eLearning content (80+ lessons) including exercises, assessments, and tools
- Directed update to RAIN Sales Negotiation Online Learning Program
 - Designed curriculum and scripted lessons in collaboration with subject matter experts (SMEs) and drawing on adult learning principles
 - Managed voice talent, graphic designer, and audio editor to meet production schedule

Fuld + Company

Boston, MA | October 2015 - December 2016

Content Director

- Managed content creation (white papers, strategic toolkits, press releases)
- Collaborated with department heads, consultants, and analysts to facilitate content creation in the life sciences (pharma and medical devices)
Process prior to production varied based on needs of author:
 - Heavy contribution: conducting research/interviews and ghost-writing
 - Medium contribution: editing throughout the writing process
 - Light contribution: deadline management and copy-editing
- Improved UX and path-to-content on company website
- Monitored conversion metrics to identify top-performing content

Journal of Visualized Experiments (JoVE)

Cambridge, MA | November 2013 - September 2015

Deputy Director of Editorial, Life Sciences

- Managed team of ~10 associate/science editors and editorial assistants, including performance reviews, bonus evaluations, hiring, and training; led team to meet or exceed submission goals 7 out of 11 months
- Organized and supervised attendance at Society for Neuroscience 2014, Experimental Biology 2015, American Association for Cancer Research 2015, and American Society of Microbiologists 2015
- Initiated seven distinct IT improvements to workflow, one of which resulted in a 56% efficiency increase

Associate Editor, JoVE Immunology & Infection

- Recruited content suited for JoVE I&I by introducing potential authors to the journal, guiding them through the submission process, and establishing/managing deadlines for manuscript submission
- Consistently exceeded recruitment goals (by 46% over 3-month period)

COSMOS Magazine

Sydney, NSW, Australia | June - August 2012

Editorial Intern

- Reported regularly (2-3 published bylines per week) on breaking scientific developments for print and digital editions of Australia's #1 Science Magazine, reaching a readership of 600,000



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PROJECTS CONTINUED

Genetics of Domestication of Crop Plants

- Under supervision of Dr. Clare O'Connor, compiled materials in order to incorporate salient examples of genetic mechanisms into core curriculum for non-science majors

Development of *Litopenaeus vannamei* cell line for in-vitro screening assays

- In the lab of Dr. Laura Hake, conducted literature review of attempts to immortalize white-leg shrimp
- Presented results at Undergraduate Research Symposium 2010

SKILLS

- Red Cross CPR Certified
- Fluent Polish; Intermediate Spanish
- Proficient in design thinking and frameworks such as Backwards Design, 5 E Model, ADDIE model
- Proficient in Articulate 360; Adobe Photoshop, InDesign, and Illustrator
- Familiarity with HubSpot, Wordpress, Canvas, and Thought Industries
- Familiarity with basic lab techniques: micro-pipetting, PCR, gel electrophoresis, spectrometry
- Smattering of HTML and CSS

AWARDS

Sustainability Fellow and Grant Recipient 2022-2023

Awarded funds for design of interpretive signs educating Harvard community about sustainable landscaping

Presidential Scholar 2008-2013

Academic merit honors program and full scholarship awarded to fifteen students per year at Boston College