

karalynnbressler

kara-lynn.info/
kara.lynn.bressler@gmail.com
+1 (239) 298 – 3457

EDUCATION

Princeton University

B.S.E. Computer Science & Visual Arts | 2015–2019

WORK EXPERIENCE

DreamWorks Animation I Feature Film

Lighting Technical Director | Fall 2019–

Implementing & maintaining rendering / compositing workflows for 50+ CG lighting artists

Using Python, C++, Houdini, Nuke, Linux

Credits: *The Croods: A New Age, The Bad Guys*

Dexter Sinister / O-R-G

Graphic Design Intern | Fall 2018–Spring 2019

Developed graphic work for 3D mock-ups & helped design typefaces / print layouts

Used Processing, Python, Illustrator, InDesign

Microsoft, Windows Core

Technical PM Intern | Summer 2018

Prototyped visual integration of 3D models in Windows compositor

Used C#, XAML

Microsoft, AI & Research

Software Engineering Intern | Summer 2017

Designed & developed extension for AI researchers to submit to deep learning GPU cluster

Used Python, JavaScript, Jupyter Notebooks

High Meadows Environmental Institute

Research Intern | Summer 2016

Led WV fieldwork team collecting & analyzing data on leaking oil & gas infrastructure

Used Java, ArcGIS

TEACHING

Outdoor Action

Outdoor Educator | 2016–2019

Led week-long backpacking trips teaching soft skills & leadership development

Collaboratively developed curriculum for Leave No Trace ethics training

Conservancy of Southwest Florida

Education Intern | Summer 2015

Led conservation-themed activities & day trips for elementary & middle schoolers

SELECTED EXHIBITIONS

Wrecked Alphabet | Broodthaers Society of America | 2020

Included works: *Local Alphabets, or *LA** poster, *Walk Cycle* flip clock, *The Last Question*

CAUSTICS | Hurley Gallery, Princeton University | 2019

Solo thesis exhibition engaging with data collection & embodied language

Light Shards | Princeton University | 2019

Site-specific series of murals serving as documentation of ephemeral sunlight patterns

Public Lands, Private Hands | CoLab, Princeton University | 2019

Typographic installation accompanying event elevating Native voices

ARTIST TALKS

Exploring Local Alphabets | 2021 (expected)

TypeThursday Los Angeles, ArtCenter College of Design

Topography Typography | 2019

WorkHack, NYC Babycastes

Light in the Dark | 2019

A **New** Program for Graphic Design, Princeton University

Geoglyphs | 2019

New York University ITP

SELECTED INDEPENDENT PROJECTS

Topography Typography | *Python, TensorFlow, Illustrator, Glyphs* | 2018–
Letterform detection & typeface creation from arbitrary satellite imagery

LOS ANGELES, or *LA* | 2020

Visiting physical letterforms in an effort to better connect with my new context

BEARS EARS | 2019

Circulated pamphlet w/ the presidential proclamation of redacted National Monument
Partnered w/ the Bears Ears Inter-Tribal Coalition

URS PĪEƧRRS | 2018

Grant-based typographic fieldwork engaging with Peruvian geoglyphs
Created poetic encoder & digital clock interface which mimic a river's perspective of time

PRINCETON | 2018–2019

Designed & published a viewbook of graduating students' work
Re-imagined the Princeton Visual Arts department's graphic identity

AVERAGE | 2018

The *average* character set as defined by the 1995 MNIST handwriting dataset

Snowflakes | *Processing* | 2018

Programmatically-generated snowflakes accompanying logic for patterns by artist Joe Scanlan

Photon Mapping | *C++* | 2018

Implemented global illumination algorithm including caustics & a participating medium

PAPERS

Topography Typography: Detecting Glyphs and Creating Fonts from Satellite Imagery

Thesis paper following two semesters of independent Computer Science research | 2019

Measuring methane emissions from abandoned and active oil and gas wells in West Virginia

Stuart Riddick, Denise Mauzerall, Mike Celia, Mary Kang, Kara Bressler, Chris Chu, Caleb Gum
Science of the Total Environment | 2019

VOLUNTEERING & MENTORING

Young Storytellers

Animation Mentor | Fall 2020

Princeton Club Archery

Peer Coach | 2015–2018

SIGGRAPH

Student Volunteer | Summer 2019

Community School of Naples Basketball

Student Coach | 2014–2015

HONORS & AWARDS

Lucas Award in Visual Arts | Princeton University | 2019

Creative Leadership Award for Facilitation | Princeton Dean of Undergraduate Students | 2019

Book Award for Studies in Media Theory | Princeton German Department | 2019

Best Poster for Independent Work Research | Princeton Computer Science Department | 2018

Berl & Berl Senior Thesis Research Award | Princeton Lewis Center for the Arts | 2018

Gold Key for Visual Artwork | Scholastic Arts & Writing Awards | 2015

Jane N. Reidel College Scholarship | The von Liebig Art Center | 2014

Juried Grand Prize Winner in Photography | Nagoya University of Arts and Sciences | 2013

TECHNOLOGIES

Python | **Java** | **C++** | **GLSL** | **C** | **MATLAB** | **HTML** | **CSS**

Processing | **Houdini** | **Nuke** | **Photoshop** | **Illustrator** | **InDesign** | **Lightroom** | **Arduino**