

STEJARA IULIA DINULESCU

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Education

SOUTHERN METHODIST UNIVERSITY (SMU), Class of 2019	Dallas, TX
B.S. in Psychology.....	GPA: 3.86
B.A. in Creative Computing.....	GPA: 4.0
B.A. in Studio Art.....	GPA: 4.0

SCOLARSHIPS, AWARDS, AND HONORS

President's Scholar, Campus Community Award (2015-2019)
Meadow's Scholar (2015-2019)
Honors in the Liberal Arts (2015-2019)
Hamilton Research Scholar (2018-2019)
Stephen D. Wilder Travel Award, 2018
Standard Club Award, 2017
Phi Beta Kappa Honors Society
Alphi Chi Honors Society
SMU's Robert Stewart Hyer Society, top 1% of SMU students (2017)
Top 5% of SMU GPAs, 2015-2018

Relevant Research/Work Experience

SMU PSYCHOLOGY DEPARTMENT	Dallas, TX	Aug 2016–Present
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Research Assistant in the Social Clinical Neuroscience Lab

- ◆ Coding/analysis of raw data from previous experiments using SPSS and Excel
- ◆ Personality and Social Processes Study:
 - Created Qualtrics survey for study
 - Ran participants on laboratory paradigms
 - Analyzed data for personal research on self-referential memory and empathic accuracy
- ◆ Social Tendencies and Cognition Study:
 - Experiment lead, training other members
 - Analyzing participant blood samples after a stress paradigm
- ◆ Research on self-referential memory and empathic accuracy, Summer 2018 (Hamilton Scholar)
 - Manipulation of mass data sets from long form to short form
 - Multi-level modeling and statistical computing
 - Research manuscript to be sent for publication
 - To be presented at conferences on social cognition

SMU CREATIVE COMPUTING DEPARTMENT	Dallas, TX	Jan 2017–Present
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Teaching Assistant for CSE 1342/ASIM 3305 and CSE 1341/ASIM 1310

- ◆ C++ language in addition to OpenFrameworks library
- ◆ Java language in addition to Processing IDE
- ◆ Graded student assignments, labs, and exams
- ◆ Taught weekly lab sessions and answered questions outside of class

SMU CREATIVE COMPUTING DEPARTMENT	Dallas, TX	Jan–May 2017
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Software development for PriceWaterhouse Cooper

- ◆ Worked on UI/UX bluesky prototypes for data visualization using Java, Processing, and Adobe Illustrator

UNIVERSITY OF TEXAS SOUTHWESTERN	Dallas, TX	Summer 2016
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Research intern in the Chahrour Neuroscience lab, specializing in autism

- ◆ Started conducting a large genetic screen for autism in mice by measuring ultrasonic vocalizations when pups are removed from dam
 - Collected and extensively analyzed large data sets; handled many mice litters
 - Trained new employee to further research progress during the fall of 2016
- ◆ Successfully cloned S5a DNA insert segment into respective vectors to test ubiquitination in human embryonic kidney cells

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EDELWEISS SCHOOL OF MUSIC
Music Teacher (Violin, Piano, Viola)

Plano, TX

August 2015–Present

Applicable Projects/Exhibits

Begin Transmission, 2018:

- Using cinder and OpenCV, frame differencing data analyzed through motion capture is transmitted to a Processing program
- Motion within the webcam drives sound and visualization, which are mapped based on the maximum amount of motion within a square area in the frame, as well as x and y positions of motion
- Collaboration with Del Cook, composer and musician, on fine-tuning the sound of the instrument
- Exhibition and performance by Del Cook in COLLABO SHOW, 2018

Drawing with Movement, 2017:

- Interactive computing project that utilizes probability analysis of Wii remote accelerometer data, transmitted by OSC
- Displays a “drawing” on-screen based on movement of dancers through probabilistic Markov analysis, as well as a direct mapping of accelerometer data on screen
- Performance in Creative Computation “Bots and Bits” Showcase, December 2017

Surveillance, 2017:

- Stores the previous frame pixel information and compares it to the current frame
- Shows the differences between the two frames with color manipulation on a 5 second time delay
- “Antenna” for showing human movement through an exhibition space
- Performance at Creative Computation C3 Showcase, May 2018

Algorithmic Music Production, 2017:

- Creation of a complete prediction suffix tree algorithm
- Music composition created by probabilistic analysis

Twitter Bot, 2017:

- Scrapes text and posts to Twitter based on Markov chain evaluation and syntax tokenization
- Utilizes Twitter API

Hiragana Character Recognition Algorithm, 2017:

- Pixel detection algorithm using Processing language
- “Searching” pixels to create a outline of the Hiragana character
- Matches this outline to a database of outlines

Black Fountain, 2016:

- 2D charcoal piece exhibited alongside music composition by collaborator, Del Cook
- Exhibited in Meadows School of the Arts, 2016

Exhibitions of studio artwork at ArtCon 2018, Mercedes-Benz Financial Services (2016, 2017), Sunset Art Studios (2016), and the Cedars Union (2015)

Technical Skills

Languages & Environments:

- Object Oriented Programmin: Java/Processing, C++/OpenFrameworks/OpenGL/OpenCV
- Other creative environments: Max MSP, Maya, Unity

Statistical Computing: SPSS, SAS, R, Excel

Other: Adobe Creative Cloud, 3D Printing

Other Associations and Activities

- ◆ SMU Ballroom Dance Team: Secretary 2016-2017, President 2017-2018, Captain 2018-2019
- ◆ SMU Student Art Association: Secretary 2016-2017, President 2017-Present
- ◆ Layout editor for Honors literary magazine, *Hilltopics* 2016-Present