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Education _

Dartmouth College Hanover, NH

M.S. IN COMPUTER SCIENCE WITH A CONCENTRATION IN DIGITAL ARTS

Sept. 2016 - PRESENT

• Won the Dartmouth Rendering Competition 2017 supported by Activision.

Northeastern University

Boston, MA

B.S. IN MATHEMATICS, MINOR IN COMPUTER SCIENCE

Sept. 2010 - May 2015

• Graduated as a honors student in Mathematics department.

Experience _

Computational Fabrication - String Art

Hanover, NH

Jan. 2018 - PRESENT

- Generated the string layout to wrap around a set of nails in order to achieve the target representation.
- Solved the linear least-squares problem and quantified the solution to integer numbers.
- Planned robot motion to wrap the strings.

React Games Salt Lake City, UT

Training and Internship

Nov. 2016 - Dec. 2016

- Made 3D models in Maya and ZBrush for games.
- Textured models using Quixel DDO.

Individual Undergrad Research in NEU

Boston, MA

Individual Research: Quantitative Thermo-acoustics Tomography

Sept. 2014 - May 2015

- Created a computational model to reconstruct image from a raw data.
- Tested the performance of the model in a numerical experiments.
- Presented the result at Hudson River Undergraduate Mathematical Conference 2015.

REU Summer Research Program in UMBC

Baltimore, MD

GROUP RESEARCH: MODELING THE BUILDING BLOCKS OF THE PANCREATIC ISLET

June 2014 - Aug. 2014

- · Simulated islet cells' activity using a computational model and compared with experimental result.
- Varied the geometries and proportions of the cells in this islet with the model.
- Presented the model to client in National Institutes of Health
- Published in UMBC Review: Journal of Undergraduate Research.

Gottex Fund Management

Boston, Massachusetts

INTERNSHIP

Feb. 2014 - May 2014

- Simulated the performance of hedge fund industry through an weighted factor model.
- Analyzed historical data of yield curve and its relationship with equity marker to predict the performance of market during increased interest rate.
- Updated past research result with recent data and optimized the math model that used in research.

Skill _____

Programming Java, JavaScript, HTML, C++, Python, LaTeX

Software Maya, ZBrush, MATLAB, Visual Studio, Android Studio, Microsoft Office

Coursework Computational Photography, 3D Modeling, Computer Animation, Human-Computer Interaction, Rendering Algorithm,

 $Smartphone\ Programming,\ Web\ Development,\ Machine\ Learning,\ Linear\ Algebra,\ Probability\ and\ Statistics$

Languages Chinese, English

JULY 13, 2018 ANNIE T. DAI · RÉSUMÉ