# **CHARLES WANG**

University of Pennsylvania, Engineering and Applied Science

B.S.E. Digital Media Design, 2017

M.S.E. Computer Graphics & Game Technology, 2018

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## **Professional Skills**

3D Software:

Maya, Zbrush, Unity Arnold, mental ray Substance Painter Unreal, 3ds Max Substance Designer Renderman, Houdini Languages:

C, C++, C# Java, Python Unix, HTML, CSS Javascript OCaml, Assembly Verilog, VHDL 2D Software

Photoshop Illustrator Premiere Pro After Effects **Technical Skills** 

Mesh Manipulation Rendering Animation OpenGL, Procedurals Fluid Simulation Creative Skills

Character Design 3D Modeling Game Design Texturing Rigging/Animation

# **Work Experience**

#### **TEACHING ASSISTANT**

lan. 2015 - Present

## **University of Pennsylvania**

- \* CIS461/561 (Advanced Rendering) Spring 2017
- \* FNAR366 (Advanced Computer Modeling) Spring 2017
- \* CIS460/560 (Interactive Computer Graphics) Spring 2016, Fall 2016
- \* FNAR235 (3D Computer Modeling) Fall 2016, Spring 2017
- \* ESE171 (Digital Design Lab) Spring 2015

#### PROGRAMMING AND GAME DESIGN INTERN BioStream Technologies

May 2016 - Aug. 2016

- \* Supporting project developing video game therapies for autism
- \* Unity and C# development
- \* Providing creative collaboration on game therapy design and implementation

#### **RESEARCH ASSISTANT**

**CG@Penn** University of Pennsylvania

May 2015 - Dec. 2015

- \* Built an accurately scaled model of Reading Terminal Market in Unity/Maya
- \* Implemented a heatmapping system with interactive heat sources

# **Recent Projects**

OBSCURA (2016) - 3D Puzzle/Adventure Game - Developed in 24-hours at Penn Play Game Jam with a team of 4 1st Place Overall Winner - Contribution: Level Design, Modeling, Texturing, Lighting

Monte-Carlo Pathtracer (2015) - Depth of Field, BVH Acceleration - Applied Skills: C++, OpenGL, QT Creator

Mini Maya (2015) - Final Project - Programmed a primitive version of Autodesk Maya Features Included: Mesh Manipulation, Rigging, Animation, Shading - Applied Skills: C++, OpenGL, QT Creator