# **CHARLES WANG**

University of Pennsylvania, Engineering and Applied Science **B.S.E. Digital Media Design**, 2018

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

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#### PROFESSIONAL SKILLS

| 3D Software  | Languages   | 2D Software   | Technical Skills   | Creative Skills  |
|--|---|---|--|--|
| Maya, Zbrush, Houdini<br>Unity, Unreal Engine<br>Arnold, Redshift<br>Substance Painter | C, C++, C#<br>Python, Java<br>Javascript<br>HTML, CSS | Photoshop<br>Illustrator<br>Premiere Pro<br>After Effects | Rendering<br>GPU Programming<br>Game Programming<br>Procedural Graphics<br>Virtual Reality | 3D Modeling Lighting/Rendering Texturing Rigging/Animation Game Design |

## WORK EXPERIENCE

#### **Assistant Technical Director**

July 2018 - Present

### Method Studios New York, NY

- \* Show set-up and support for visual effects pipeline
- \* Develop and maintain proprietary software

#### **Teaching Assistant**

Jan 2015 - May 2017

## University of Pennsylvania Philadelphia, PA

- \* 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

# Programming and Game Design Intern

May 2016 - Aug 2016

#### BioStream Technologies Philadelphia, PA

- \* Supporting project developing video game therapies for autism
- \* Unity and C# development, game therapy design

#### Research Assistant

May 2015 - Dec 2015

### CG@Penn - University of Pennsylvania Philadelphia, PA

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

# RECENT PROJECTS

#### **Propuga (2017)**

Senior Design Project

3D web puzzle game where puzzles are procedurally generated Applied Skills: Javascript, 3js, WebGL

#### **OBSCURA (2016)**

3D Puzzle/Adventure Game

1st Place Overall Winner at Penn Play Game Jam Spring 2016 Contribution: Level Design, Modeling, Texturing, Lighting

Fall 2016 - Our team later adapted Obscura as a third-person puzzler in Unreal Engine

#### Monte-Carlo Pathtracer (2015)

Multiple Importance Sampling, Depth of Field, BVH Acceleration Applied Skills: C++, OpenGL, QT Creator