

# Wentao Lu

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## Université Bishop's

Sherbrooke, QC, Canada, 2021.08

M.Sc, Computer Science, GPA 94.73/100

## Texas A&M University

College Station, Texas, USA, 2014.05

M.Sc, Financial Econometrics, GPA 3.92/4

## Shanghai University of Finance and Economics

Shanghai, China, 2012.06

B.Sc, Mathematical Economics (Major Degree)

B.BA, Business Administration (Dual Degree)

## Technical Skills

- Strong C/C++ programming skills, solid foundation in math, statistics and computer graphics
- In-depth knowledge of modern OpenGL, GLSL and physically-based rendering techniques
- Proficient in Oracle database, SQL and PL/SQL
- Experience with Unity3D, C#, Python, R, Lua, Linux, bash, Git, RenderDoc and Visual Studio
- Familiar with machine learning algorithms and volumetric image processing
- **Certifications:** SAS certified advanced programmer, also completed 38 courses on Coursera
- **Languages:** English (TOEFL 104/120, GRE 328/340), Japanese (professional N1 level), Mandarin (native)

## Open-Source Work

### [sketchpad](#) - Physically-Based 3D Renderer <

A physically-based rendering library for playing with a wide range of rendering techniques in OpenGL.

Main features: *tiled forward rendering, distant IBL, simplified Disney BSDF (BRDF + clear coat, anisotropy, refraction and cloth), omnidirectional PCSS shadows, skeleton animation, compute shader bloom, entity-component system, first-person camera with smooth arcball control, wireframe rendering, runtime scene switching, native screen capturing.*

### [GameStore](#) - Classic Python 2D Games <

A collection of classic arcade games implemented using the Python kivy framework.

Games include: 2048, Asteroids, Memory, Pong, 15 puzzle, Blackjack and Stopwatch.

### [SUFD](#) - Multi-thread Unix File Daemon in C <

A simple TCP server that simulates concurrent reads and writes with synchronization in a heavy-traffic environment.

Supports signal handling, dynamic concurrency management, reconfiguration and replication.

## Employment

### Associate Software Engineer, Manulife-Sinochem Life Insurance

Shanghai, China, 2016.05 - 2019.09

- Developed and maintained the bancassurance transaction processing system built on Oracle database & J2EE.
- Designed and implemented 4 subsystems for our bank partners to process their orders, underwriting and payments.
- Developed 4 batch modules that are used to generate and upload bank daily/monthly reconciliation reports.
- Discussed technical feasibility of new features with users by evaluating the impact of change on the backend system.
- Collaborated with external J2EE vendors to analyze system performance and troubleshoot production issues.

### Financial Advisor, Sanko Soflan Holdings

Tokyo, Japan, 2015.06 - 2016.02

- Conducted site visits to newly released lands, housing and commercial properties for investment analysis.
- Collected and exchanged private market data with Japanese local real estate companies and small property agencies.
- Provided financial planning advice for overseas customers who are interested in real estate and land in Japan.