

Computer Graphics Lab

BOCHANG MOON



Research

- Goal: our group aims to synthesize photo-realistic images from 3D virtual models at real-time rates.



Images come from our recent SIGGRAPH papers, (SIGGRAPH = top-tier conference in computer graphics)

Research

- Our main research topics include the following:
- Rendering techniques - ray tracing, sampling and reconstruction, cache efficient rendering, filtering, and real-time rendering
- Graphics applications – visual effects for animations, movies, games, augmented and virtual reality

Recommended Backgrounds

- Backgrounds on computer programming
 - ✓ (Required) C/C++
 - ✓ (Required) Data structure
 - ✓ (Recommended) Algorithm
 - ✓ (Optionally) GPU programming
- Basic mathematics
 - ✓ (Required) Linear algebra
 - ✓ (Recommended) Statistics
 - ✓ (Optionally) Calculus

Frequently Asked Questions

- Financial support
 - ✓ GIST fully supports tuition and provides allowance and others (e.g., housing) to all the graduate students.
 - ✓ In addition to the support from our university, our lab provides monthly stipends. The amount of stipends varies your performance to our funded projects. We believe you can focus on your study without financial difficulty.
- MS vs. Integrated MS/PhD course
 - ✓ 2 years study is often not enough if you want to be an independent researcher. Hence, we recommend you to apply for the integrated course.

Frequently Asked Questions

➤ Student life

- ✓ Working hours: 40 hours per week (8 hours / day) is mandatory.
- ✓ 1 to 1 meeting per week: we will have in-depth discussion for your research project.
- ✓ Group meeting per week: a couple of students per week present their research progress or recent papers.
- ✓ Vacations: 10 days / year.

➤ International conference

- ✓ New member has a chance to attend an international conference if our funding recourses are available.
- ✓ If you have a conference paper, our lab will support for your travel expense.

Join Our Lab?

- We are looking for self-motivated students who have a strong desire to do a world-class research in computer graphics and related areas.
- If you are interested in joining our lab, please send an email with your CV to Prof. Moon (bmoon at gist.ac.kr).