

PARITOSH SHARMA

GRAD STUDENT

Université Grenoble Alpes - ENSIMAG

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Research

Laboratoire d'Informatique de Grenoble - TEAM GETALP

Grenoble, France

ADVISOR: DR. DIDIER SCHWAB

Feb. 2020 - Sept. 2020

- Thesis: "Interaction methods for eye tracking in games for cognitively disabled people"

Projects

Personal

Gurgaon, India

SIMULATOR FOR MASS SPRING SYSTEMS

Dec. 2018

- WebGL demonstration for Mass Spring Systems using popular algorithms like Implicit/Explicit Euler, Verlet Integration, etc.

KDE

Grenoble, France

QT3D BACKEND FOR KSTARS

May 2020 - Jul. 2020

- 3D backend for planetarium software KStars
- Support for Astronomical projections

Education

Université Grenoble Alpes - ENSIMAG

Grenoble, France

MS INFORMATICS

2019 - 2021

- Specialization in Graphics, Vision and Robotics
- M1 Thesis in interaction methods for eye tracking

SRM University

Ghaziabad, India

B.TECH. CSE

2015 - 2019

- Thesis in Finger Tracking
- Advisor: Mrs. Priyanka Sharma

Professional Experience

Nov. 2018 -

Apr. 2019

Intern, Gesture Research

May 2018 -

Aug. 2018

Student Developer, Godot - Google Summer of Code

Dec. 2017 -

Jan. 2018

Intern, Cusmat Technologies

Skills

COMPUTER GRAPHICS

Physics based animation(Rigid and Soft body simulation), Path tracing, noise functions(worley, perlin), BRDF and micro-facet theory,

MATHEMATICS

Linear algebra, Multi-variable Calculus, Euler Integration, Optimization(gradient descent and back-propagation), sampling and Monte Carlo estimators.

COMPUTER SCIENCE

C++, OpenGL, GLSL, Unity3D, multi-threading, Python, Matlab/Octave, Tensorflow, Java, HTML, CSS, JS(three.js and phaser.js), Git, Linux, Qt, CMake, automatic differentiation, scalable algorithms, Latex, Inkscape, GIMP and OpenShot.

LANGUAGE

English and Hindi(native), French(Beginner)

Additional Information

INVITED TALKS

Summer 2020. *Qt3D backend for KStars*. Invited talk: KDE Academy 2020

HONORS

- 2020 **EIT Health - Grenoble i-Days 2020**, Bronze Medal *France*
- 2020 **Campus France**, Charpak BCS Master's Scholarship
- 2011 **17th UCMAS Abacus and Mental Arithmetic International Competiton**, 1st Runner Up *Malaysia*
- 2014 **Technothon**, IIT Guwahati, All India Rank 44 *India*

OTHER WORK

- 2020 **Association de la fondation étudiante pour la ville**, Volunteer *France*
- 2020 **INTEGRE**, Vice President - Événements *France*
- 2018 **Robinhood Army**, Volunteering and teaching at local slums *India*

OTHER INTERESTS

Hiking, Climbing, Soccer, Chess, History of digital and board games, Cooking