

# PARITOSH SHARMA

GRAD STUDENT

Université Paris Saclay - CNRS

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## Publications

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### PUBLISHED

Paritosh Sharma and Michael Filhol. "Multi-Track Bottom-Up Synthesis from Non-Flattened AZee Scores". In: *7th Workshop on Sign Language Translation and Avatar Technology: The Junction of the Visual & the Textual Challenges and Perspectives (SLTAT 7)*. Marseille, France, June 2022.  
URL: <https://hal.archives-ouvertes.fr/hal-03721720>

## Teaching

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Polytech Paris Sud	<b>Introduction to Computer Graphics</b> , Teaching Assistant	Fall 2022
IUT d'Orsay	<b>Informatique Graphique pour la Science des Données</b> , Teaching Assistant	Spring 2022
IUT d'Orsay	<b>Introduction à la Programmation orientée Objet(French)</b> , Teaching Assistant	Fall 2021

## Projects

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- Blender plugin to animate AZee expressions
- WebGL demonstration for Mass Spring Systems using popular algorithms like Euler methods, Verlet, etc.
- 3D Underwater scene in PyOpenGL and GLSL.
- Galactic Cricket - A VR cricket game for Meta headsets
- Oh Camel! - A MinCaml compiler

## Education

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<b>Université Paris-Saclay - CNRS</b>	Orsay, France
PHD	2021 - Present
<ul style="list-style-type: none"><li>• Thesis on synthesis of sign language from AZee expressions</li><li>• Director: Dr. Michael Filhol</li></ul>	
<b>Université Grenoble Alpes - ENSIMAG</b>	Grenoble, France
MS INFORMATICS	2019 - 2021
<ul style="list-style-type: none"><li>• Specialization in Graphics, Vision and Robotics</li><li>• M1 Thesis in interaction methods for eye tracking under Dr. Didier Schwab</li><li>• M2 Thesis in synthesis of sign language under Dr. Michael Filhol</li></ul>	
<b>SRM University</b>	Ghaziabad, India
B.TECH. CSE	2015 - 2019
<ul style="list-style-type: none"><li>• Final year project in Finger Tracking under Mrs. Priyanka Sharma</li></ul>	

## Professional Experience

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Nov. 2018 - Apr. 2019	<b>Intern</b> , Gesture Research
May 2018 - Aug. 2018	<b>Student Developer</b> , Godot - Google Summer of Code
Dec. 2017 - Jan. 2018	<b>Intern</b> , Cusmat Technologies

## Skills

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### COMPUTER GRAPHICS

Armature animation, Kinematics, Physics based animation(Rigid and Soft body simulation), Path tracing, noise functions, 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, Blender, Unity3D, multi-threading, Python, Octave, Tensorflow, Java, HTML, CSS, JS(phaser.js), Git, Linux, Qt, CMake, Latex, Inkscape, GIMP and iMovie.

### LANGUAGES

English(professional), Hindi(native), French(Intermediate), Spanish(Beginner), French Sign Language(A1.2)

## Additional Information

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### INVITED TALKS

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

### HONORS

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

### OTHER WORK

Present	<b>La Petite Rockette</b> , Volunteer	<i>Paris, France</i>
2020	<b>Association de la fondation étudiante pour la ville</b> , Volunteer	<i>Grenoble, France</i>
2020	<b>INTEGRE</b> , Vice President - Events	<i>Grenoble, France</i>
2018	<b>Robinhood Army</b> , Volunteering and teaching at local slums	<i>India</i>

### OTHER INTERESTS

Cycling, Climbing, Hiking, Cooking, Chess