PARITOSH SHARMA

GRAD STUDENT

Université Paris Saclay - CNRS

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Publications

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`

Paritosh Sharma. "A Layered Approach to Constrain Signing Avatars". In: *Doctoral Consortium - 18th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP$_D C$23)*. Lisbon, Portugal, Feb. 2023. URL: `https://visigrapp.scitevents.org/Abstract.aspx?idEvent=Zd8U6w5QaDo=`

Teaching

Polytech Paris Sud	**Introduction to Computer Graphics**, Teaching Assistant	*Spring 2023*
Polytech Paris Sud	**Interaction Humain-Machine(French)**, Teaching Assistant	*Spring 2023*
Polytech Paris Sud	**Introduction aux bases de données(French)**, Teaching Assistant	*Spring 2023*
IUT d'Orsay	**Informatique Graphique pour la Science des Données(French)**, Teaching Assistant	*Spring 2023*
IUT d'Orsay	**Introduction à l'Intelligence Artificielle(French)**, Teaching Assistant	*Spring 2023*
IUT d'Orsay	**Informatique Graphique pour la Science des Données(French)**, Teaching Assistant	*Spring 2022*
IUT d'Orsay	**Introduction à la Programmation orientée Objet(French)**, Teaching Assistant	*Fall 2021*

Projects

- Blender plugin to animate AZee exprssions
- 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

Université Paris-Saclay - CNRS   *Orsay, France*
PHD   *2021 - Present*
- Thesis on the synthesis of Sign Language from AZee expressions
- Director: Dr. Michael Filhol

Université Grenoble Alpes - ENSIMAG   *Grenoble, France*
MS INFORMATICS   *2019 - 2021*
- Specialization in Graphics, Vision and Robotics
- M1 Thesis in interaction methods for eye tracking under Dr. Didier Schwab
- M2 Thesis in synthesis of sign language under Dr. Michael Filhol

SRM University   *Ghaziabad, India*
B.TECH. CSE   *2015 - 2019*
- Final year project in Finger Tracking under 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

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

INVITED TALKS

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

HONORS

2023	**Doctoral Consortium - VISIGRAPP 2023**, Best PhD project	*Portugal*
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	**Technothlon, IIT Guwahati**, All India Rank 44	*India*

OTHER WORK

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

OTHER INTERESTS

Cycling, Climbing, Hiking, Cooking, Chess