



4-6 months funded internship positions
on
Sketch-based modeling & Geometry Processing
at
LTCI - Telecom Paris
Institut Polytechnique de Paris

Nov 06, 2023

I am looking for highly motivated (preferably master-level) students interested in doing a 4-6 months internship in sketch-based modeling/geometry processing.

Advisor: Dr Amal Dev PARAKKAT (IMAGES Team, LTCI - Telecom Paris, Institut Polytechnique de Paris)

Contact: amal.parakkat@telecom-paris.fr

Place: LTCI - Telecom Paris, Institut Polytechnique de Paris, Palaiseau, France

Contract duration: 4-6 months (on-site)

Context

Please have a look at these relatable technical works to get a flavour:

- 3-Sweep: Extracting Editable Objects from a Single Photo - Paper, Video
- Autocomplete hand-drawn animations - Paper, Video
- AniMesh: Interleaved Animation, Modeling, and Editing - Paper, Video
- Structured Annotations for 2D-to-3D Modeling - Paper, Video
- Motion Amplifiers: Sketching Dynamic Illustrations - Paper, Video
- Energy Brushes: Interactive Tools for Illustrating Stylized Elemental Dynamics - Paper, Video
- Monster Mash: A Single-View Approach to Casual 3D Modeling and Animation - Paper, Video
- Painting by Feature: Texture Boundaries for Example-based Image Creation - Paper, Video
- DeepFaceDrawing: Deep Generation of Face Images from Sketches - Paper, Video
- SurfaceBrush: From Virtual Reality Drawings to Manifold Surfaces - Paper, Video
- Piecewise-Smooth Surface Fitting onto Unstructured 3D Sketches - Paper
- Cubic Stylization - Paper, Video
- Shape Approximation by Developable Wrapping - Paper, Video
- Implicit Untangling: A Robust Solution for Modeling Layered Clothing - Paper, Video
- GeoBrush: Interactive Mesh Geometry Cloning - Paper, Video
- Replaceable Substructures for Efficient Part-Based Modeling - Paper, Video

Depending on our mutual interest, we can fix the exact topic.

Context of the position

The successful candidate will be hired by Telecom Paris, Institut Polytechnique de Paris, and will be joining the IMAGES research team at LTCI (Laboratoire Traitement et Communication de l'Information) in Palaiseau. We offer a high-standard research environment (including facilities and equipment), within the vibrant academic and industrial environment of Institut Polytechnique de Paris.

Requirements and application

Potential applicants should be:

- **Currently enrolled** as a student in Computer Science with strong foundations in mathematics
- Skilled in programming: Especially C++ and/or Python
- Relevant good background in Computer Graphics such as 3D modeling, 3D Animation, and Geometry Processing. Please detail this background in your application.

Please send your application to Amal Dev PARAKKAT (amal.parakkat@telecom-paris.fr) with:

- Curriculum Vitae (please state clearly your diplomas and field of study, previous experiences/internships and current position)
- Motivation Letter
- Project proposal (specifying the topic you like, your thoughts, and preliminary ideas)
- Copy of your Bachelor and Master transcripts
- At least one recommendation letter or alternatively contacts of referents who know you, and work in Computer Graphics or related fields

If you would like any further information regarding this position, I am available by email at adp.upasana@gmail.com or amal.parakkat@telecom-paris.fr