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My Research: Visual Perception

My research focuses on understanding how we interpret sensory input. I ask questions like:

- How do we estimate the reflectance of a surface?
- How does the visual system represent the light sources in a scene?

My digital toolbox:

- **OS:** Arch Linux
- **Language:** Python
- **Editor:** Geany, Spyder, IPython
- **Rendering & graphics:** Mitsuba, POV-Ray, Inkscape
- **Experiments:** PsychoPy
- **Data analysis & visualisation:** NumPy, SciPy, PyMC3, Veusz
- **Reference manager:** JabRef
- **Docs & presentations:** LaTeX, Beamer, Overleaf, Jupyter
- **Communication:** Zulip

My favourite tool:

- **Python** for...everything! I use Python in nearly all aspects of my research e.g. creating stimuli, running experiments, and data analysis.
- **Overleaf** for taking notes, preparing manuscripts, and collaborative writing.

I've got my eye on:

- **Blender** for stimuli generation.



python™



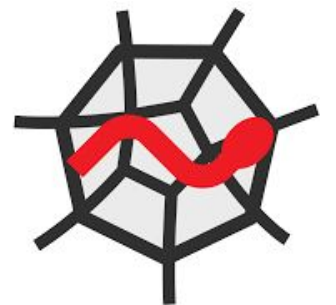
Psychology software in Python



LATEX



IP[y]:



SPYDER



PYMC3