

## Contact

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## Top Skills

Human Factors

Cognitive Psychology

Data Analysis

## Languages

Français (Native or Bilingual)

Anglais (Native or Bilingual)

## Certifications

Learning to Teach Online

Learning Snagit for Mac

## Honors-Awards

Queen Elizabeth II Scholarship  
Science Technology

NSERC Canada Alexander Graham-Bell Graduate Scholarship

NSERC Julie-Payette Graduate Scholarship

Governor General's Academic Medal

NSERC Undergraduate Student Research Award

## Publications

Can skilled readers perform a second task in parallel? A functional connectivity MRI study.

Does a convexity prior explain the facing-the-viewer bias in the perception of biological motion

Effects of animation retargeting on perceived action outcomes.

Limits of subjective and objective vection for ultra-high frame rate visual displays

Presence and cybersickness in virtual reality are negatively related: A review

# Sophie Kenny

Staff Scientist | Cognitive Scientist | Perceptual Scientist | Product Development | Research Technology | Data Analysis | Research Methods (Eye-Tracking, fMRI, VR)

Saint-Bruno, Quebec, Canada

## Summary

I am a Staff Scientist and Experimental Psychologist with expertise in human perception, cognitive performance, and applied research technologies. My work combines academic research with product development and technical consultation, ensuring research tools and methodologies deliver accurate, reproducible data.

At VPixx Technologies, I guide the scientific direction of research software and hardware, collaborating with developers using Agile methodologies. I design functional specifications, contribute to user experience improvements, and create training resources that support scientists across behavioral, fMRI, MEG, and VR/AR environments.

I have also developed and delivered workshops, training programs, and university-level courses, helping researchers and students apply psychological science to real-world challenges. My background spans data analysis (R, MATLAB, Unity, SPSS), psychophysics, and experimental design, along with strong communication skills through publishing, teaching, and conference presentations.

I am particularly passionate about the intersection of cognitive science, technology, and user-centered design, and how applied research can drive innovation in both academic and industry settings.

Areas of Expertise: Human Perception & Performance | Research Technology | Applied Cognitive Psychology | Human Factors | UX in Research Tools | Data Analysis (R, MATLAB, Unity, SPSS) | Eye-Tracking | VR/AR | fMRI | Agile Collaboration | Scientific Communication

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## Experience

## VPixx Technologies Inc

### Staff Scientist

May 2018 - Present (7 years 9 months)

St-Bruno-de-Montarville, Quebec, Canada

- Lead the scientific direction and user-focused specifications for LabMaestro software, collaborating with software engineers using Agile methods to align development with research needs.
- Drive improvements in user experience and data quality by bridging scientific research requirements with product design.
- Develop and deliver workshops, online training, and research methods seminars that expand the company's global reach within the research community.
- Provide consultation for lab setups (behavioral, fMRI, MEG, OPM, VR/AR), ensuring research environments are optimized for performance and reproducibility.
- Conduct independent and collaborative research (methods papers, perception studies, literature reviews), contributing to the advancement of experimental psychology and neuroscience and identifying emerging user needs.
- Represent the company at major conferences (e.g., SfN, VSS), strengthening partnerships and visibility in the scientific community.
- Enhanced internal workflows by streamlining CRM processes as Salesforce administrator, improving efficiency in sales and client engagement.

## Royal Military College of Canada/Collège militaire royal du Canada & Laurentian University

### University Lecturer (Part-time and Contract)

December 2016 - May 2024 (7 years 6 months)

Kingston, Ontario

- Designed and delivered undergraduate courses in psychology including Introduction, Intercultural Psychology, Stress & Biology, Personality, and Group Dynamics.
- Developed and implemented curricula and assessments, ensuring alignment with learning objectives and fostering student engagement in both classroom and online formats.
- Delivered bilingual instruction to officers-in-training, integrating applied psychology into leadership and team development contexts.
- Recognized for the ability to translate complex psychological concepts into practical applications for diverse audiences.

## Independant Contracting

## Research and Consultation, Postdoctoral Research

2017 - December 2018 (1 year)

Canada

- Provided research consulting services for academic and institutional clients (e.g., University of Waterloo, Royal Military College), supporting study design, data collection, and statistical analysis.
- Delivered client-focused solutions by tailoring methodologies to project needs, ensuring rigor, efficiency, and actionable outcomes.
- Conducted postdoctoral research on human perception and learning mechanisms, integrating advanced tools such as gamified research and VR.

Produced reports, publications, and presentations that effectively communicated complex findings to technical and non-technical stakeholders.

## Queen's University

Ph.D.

September 2012 - August 2017 (5 years)

- Research in human perception, top-down processing, learning mechanisms.
- Technical skills: Matlab, Unity3D, R, SPSS, motion capture, VR.
- Teaching Fellow in Sensation & Perception; Co-Organizer of Biological Communication Seminar Series.

## Royal Military College of Canada/Collège militaire royal du Canada

Teaching Fellow

September 2016 - December 2016 (4 months)

Kingston, Ontario

Teaching courses on Personality and Group Dynamics to officers-in-training. Bilingual classes.

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## Education

### Queen's University

Doctor of Philosophy - PhD, Brain, behaviour and cognitive sciences (Psychology) · (2012 - 2017)

### Memorial University of Newfoundland

Master of Science (M.Sc.), Experimental Psychology · (2010 - 2012)

### Université de Moncton

Bachelor of Arts (B.A.), Psychology Honours · (2006 - 2010)

