# Satyajit Upasani

**UX Researcher**

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Portfolio Link: <https://www.satux.net/>

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**VIRGINIA TECH** December 2021

**PhD (In Progress), Industrial and Systems Engineering (Human Factors)** GPA: 3.59

**VIRGINIA TECH** May 2017

**M.S., Industrial and Systems Engineering (Human Factors)** GPA:3.52

**MISSISSIPPI STATE UNIVERSITY** May 2015

**B.S., Mechanical Engineering** GPA:3.85

**RELEVANT SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Design Research Methods:**Usability Evaluations, Content Analysis, Interviews, Questionnaire Design, Design Charrette, Heuristic Evaluation, PowerPoint Prototyping, Eye Tracking, Contextual Inquiry, Ethnographic Studies, Storyboarding, Affinity Diagramming

**Programming and Software:**Experienced in MS PowerPoint, MS Excel, MS Word  
Working knowledge of Google Analytics, Tobii Eye-Tracking, Processing 3.0, MATLAB, C++, Python, SAS JMP

**WORK EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**UX Researcher, Biocomplexity Institute of Virginia Tech *Jan 2017 – Dec 2017***

* Conducted UX Research and Design for the PATRIC (<patricbrc.org>) website, employing generative and evaluative methods, as well as design-oriented activities such as design charrette and wireframing.
* Led all user research including experimental design and setup, user recruitment and testing, qualitative data analysis, and insight generation and presentation.
* Succeeded in balancing project priorities with user needs, while providing a set of recommendations and new design concepts that were well-received by domain scientists, software developers and project managers.

**Augmented Reality (AR) Navigation Project, Virginia Tech *Jan 2017 – May 2017***

* Designed and tested a mockup of an in-vehicle landmark-based navigation interface.
* Generated ideas for a visual design through driver interviews, AR design heuristics and a Design Charrette. Tested a prototype in a driving simulator at Virginia Tech using Think-Aloud and Wizard of Oz techniques.
* Received positive reactions from users regarding the potential benefits of the interface and their suggestions on degree of interactivity and visual design.

**Human Factors Research Assistant, Virginia Tech Transportation Institute (VTTI) *Nov 2015 - Dec 2016***

* + Reduced and analyzed naturalistic driving data and assisted with cutting-edge human factors research for autonomous vehicles and systems.
  + Helped generate large custom datasets on current driving behavior patterns, which were used by car-manufacturers to develop their product and market strategy.
  + Played a key role in generating summary statistics and usability insights that helped improve warning systems for driverless cars, by making them better suited to drivers’ needs and preferences.

**PUBLICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Satyajit Upasani, Roberto Franco, Kim Niewolny & Divya Srinivasan (2019) *The Potential For Exoskeletons to Improve Health and Safety in Agriculture – Perspectives From Service Providers*, IISE Transactions on Occupational Ergonomics and Human Factors, DOI: [10.1080/24725838.2019.1575930](https://doi.org/10.1080/24725838.2019.1575930)