Anup Sathya

Research summary

Aims—to develop and evaluate tangible devices that help people self-regulate their use of smartphones and laptops.

Research positions

2021 - 2022**Pre-Doctoral Researcher**

Dept. of Computer Science, University of Maryland, College Park

Education

2022 - present PhD in Computer Science, University of Chicago

Supervisor: Dr. Ken Nakagaki

Thesis: in-progress

2019 - 2021MSc in Human-Computer Interaction, University of Maryland, College Park

Supervisor: Dr. Huaishu Peng

Thesis: Enabling On-body Computing Using a Track Based Wearable

2014 - 2018BTech in Electronics & Communication Engineering, PES University

Supervisor: Suresh Padmanabhan

Thesis: Realtime On-chip Wireless Waveform Monitoring

Major grants and funding

2022 Crerar Fellowship (\$5000), Dept. of Computer Science, University of Chicago 2022 Daniels Fellowship (\$5000), Dept. of Computer Science, University of Chicago

2019 - 2021Full tuition remission (~\$56k), University of Maryland, College Park

Awards & honors

2024 Special Recognition for Outstanding Reviews, DIS 2023, CHI 2024

2023 core77 Design Awards 2023, Tools Award for Fibercuit

2020 Nominated for Graduate Assistant of the Year (top 2%), University of Maryland,

College Park

2016 Zonal Winner, National Robotics Championship, IIT Bombay, India

Publications

		Conference publications (fully reviewed, archival)	In computer science, top-tier conferences (<30% acceptance rate) are as, or more impactful than journals, see https://doi.org/fgjt2h
2024	C4	SHAPE-IT: Exploring Text-to-Shape-Disple Behaviors with LLMs [url] W. Qian, C. Gao, A. Sathya, R. Suzuki, K. Nake The 37th Annual ACM Symposium on User Inter	kagaki
	C3	CARDinality: Interactive Card-shaped Roll Vibration [url] A. Retnanto*, E. Faracci*, A. Sathya*, Y. Hung The 37th Annual ACM Symposium on User Inter [*equal contribution]	g, K. Nakagaki
	C2	Attention Receipts: Utilizing the Materialing Reflection on YouTube [url] A. Sathya, K. Nakagaki Proceedings of the CHI Conference on Human I	
2022	C1	Fibercuit: Prototyping High-Resolution Flo Laser Engraver [url] Z. Yan*, A. Sathya*, S. Yusuf, J. Lien, H. Peng The 35th Annual ACM Symposium on User Intel [*equal contribution] Tools Aw	rface Software and Technology (UIST '22)
		Journal articles (fully reviewed, archi	val)
2022	J1	Calico: Track Based Interactive and Relocand Precise Locomotion [url] A. Sathya, J. Li, T. Rahman, G. Gao, H. Peng Proceedings of the ACM on Interactive, Mobile, (UbiComp '22)	
		Other Contributions (lightly reviewe	ed, archival)
2022	A4	Demonstration of Fibercuit: Techniques to and Kirigami Circuits with a Fiber Laser Et Z. Yan*, A. Sathya*, S. Yusuf, J. Lien, H. Peng The 35th Annual ACM Symposium on User Interest [*equal contribution] **P Best Demo (People's Choice)	ngraver [<u>url]</u>
2021	A3	Towards On-the-wall Tangible Interaction and Responsive User Interface [url] Z. Yan, A. Sathya, P. Carvalho, Y. Hu, A. Li, H.	

Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems

(CHI EA '21)

2018	A2	Realtime On-chip Wireless Waveform Monitoring [url] A. Sathya, S. Balaji, A. Gupta, S. Padmanabhan IEEE 2018 International Conference on Advances in Computing, Communications and
		Informatics (ICACCI '18)
2017	A1	Visual Positioning System for Automated Indoor/Outdoor navigation [url] A. Sathya, A. Goel, S. Padmanabhan IEEE 2017 Region 10 Conference (TENCON '17)
		Research dissemination
		Press
2024		404 Media, Would You Waste Less of Your Life Online If You Got Daily 'Attention Receipts'?
2023		Adafruit Blog, Calico: A Wearable Robotic Assistant #WearableWednesday
		<u>Indian Express</u> , This is Calico, a tiny robot that can be your dance instructor, workout tracker, and more
		Communications of the ACM, A Wearable Robotic Assistant That's All Over You
		IEEE Spectrum, A Wearable Robotic Assistant That's All Over You
		The Verge, Wearable robot, why not?
		all3dp, Fibercuit Makes Custom Flexible Circuits With a Fiber Laser Engraver
		Hackster.io, Fibercuit Laser-Cuts Prototype PCBs and Forms 3D Kirigami Objects
		Hackaday, Fiber Laser Your Way to Flexible PCB Success
2022		<u>Hackaday</u> , The Calico Wearable Rides the Rails
		<u>itmedia.co.jp</u> , 服に敷いた線路をシュッシュッポッポ 体中を移動する小型ロボット 健康状態をモニタリング
		Hackster.io, How to "Train" Your Sensor
		Podcasts & Interviews
2024		CBC Radio, Interviewed on CBC Radio's 'As It Happens' - a Canada-wide evening news show - about Attention Receipts
		Put on Your BestRobot, Interviewed on Over Coffee about Calico
2022		Huaishu Peng, Anup Sathya, Zeyu Yan // Hackster Café, Interviewed on Hackster Café about Calico
		Teaching experience
2024		Teaching Assistant, A Practice in Art & Technology (Spring 2024) , University of Chicago, Department of Computer Science Instructor: Ken Nakagaki

2023	Teaching Assistant, Intro to Human-Computer Interaction (Fall 2023), University of

Chicago, Department of Computer Science

Instructor: Ken Nakagaki

2022 Teaching Assistant, Actuated User Interfaces and Technologies (Winter 2022),

University of Chicago, Department of Computer Science

Instructor: Ken Nakagaki