

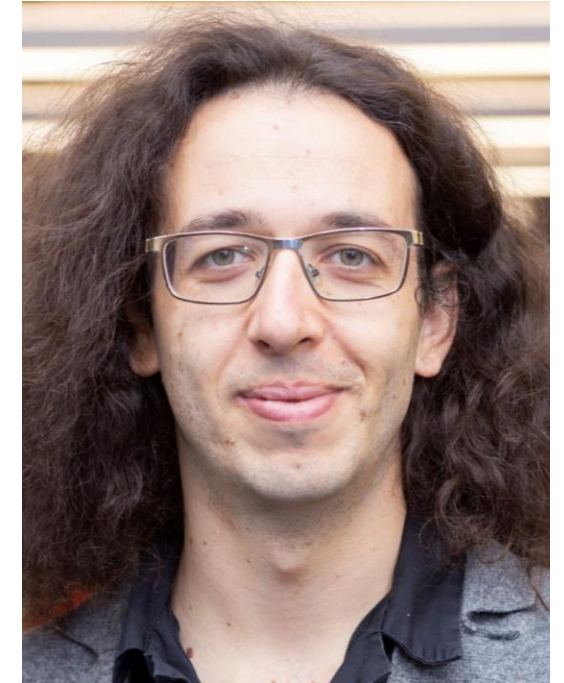
Significant New Researcher Award Winner



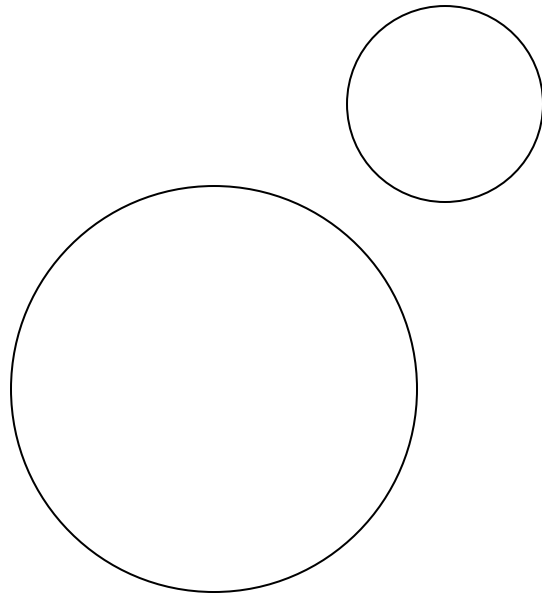
Pedro Lopes

University of Chicago, USA

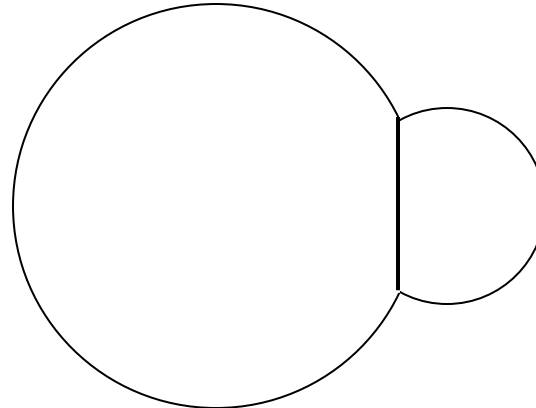
In recognition of his outstanding contributions to virtual reality, wearable hardware for multimodal sensations (e.g., haptics, olfaction, taste), and the study of perceptual illusions



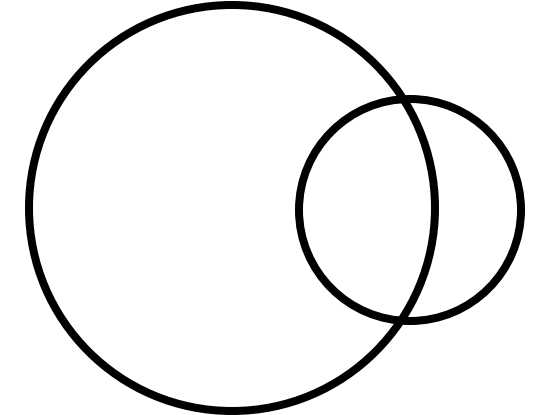
More on his work: lab.plopes.org



mobile



wearable



**integrated
with body**

integrating devices directly with the user's body enables:

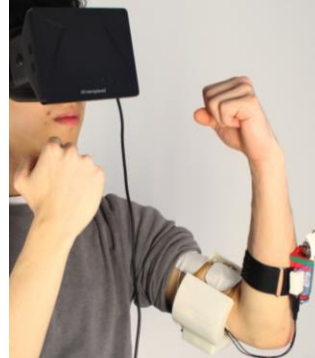
1. body as **force actuator**



VR Walls CHI'17



Magnetic Muscle Stimulation UIST'23



Impacto UIST'15



Hands-free force-feedback CHI'18

(...)

2. body as **thermal device**



Trigeminal Temperature CHI'20
🏆 Best Paper

3. body as **tactile actuator**



Chemical Haptics UIST'21



Back-of-Hand CHI'23
🏆 Best Paper



Haptic Permeability CHI'24



Source Effector CHI'24
🏆 Honorable Mention

(...)

4. body as **taste display**



Taste Retargeting UIST'23

integrating devices directly with the user's body enables:

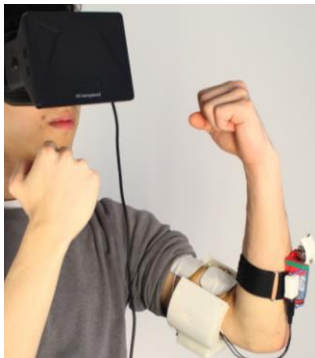
1. body as force actuator



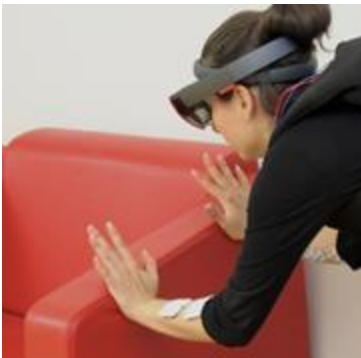
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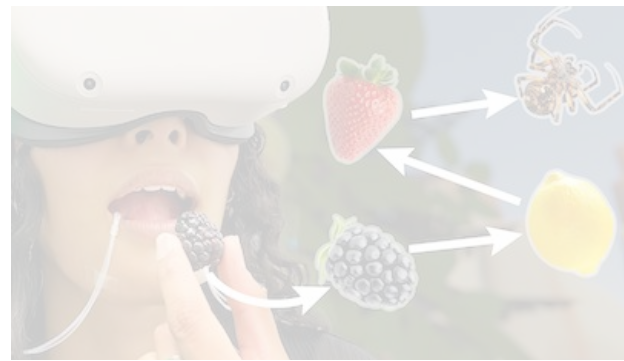
Haptic Permeability CHI'24



Source Effector CHI'24
🏆 Honorable Mention

(...)

4. body as taste display



Taste Retargeting UIST'23

watch: <https://www.youtube.com/watch?v=OcSmCamMKfs>



patrick baudisch
HPI

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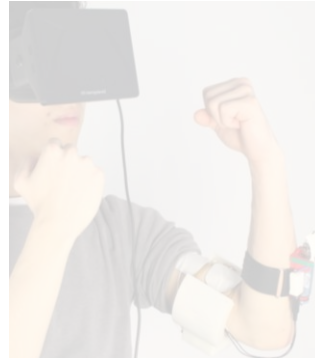
1. body as force actuator



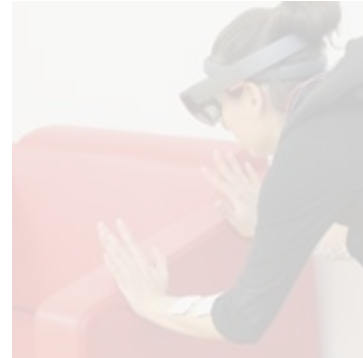
VR Walls CHI'17



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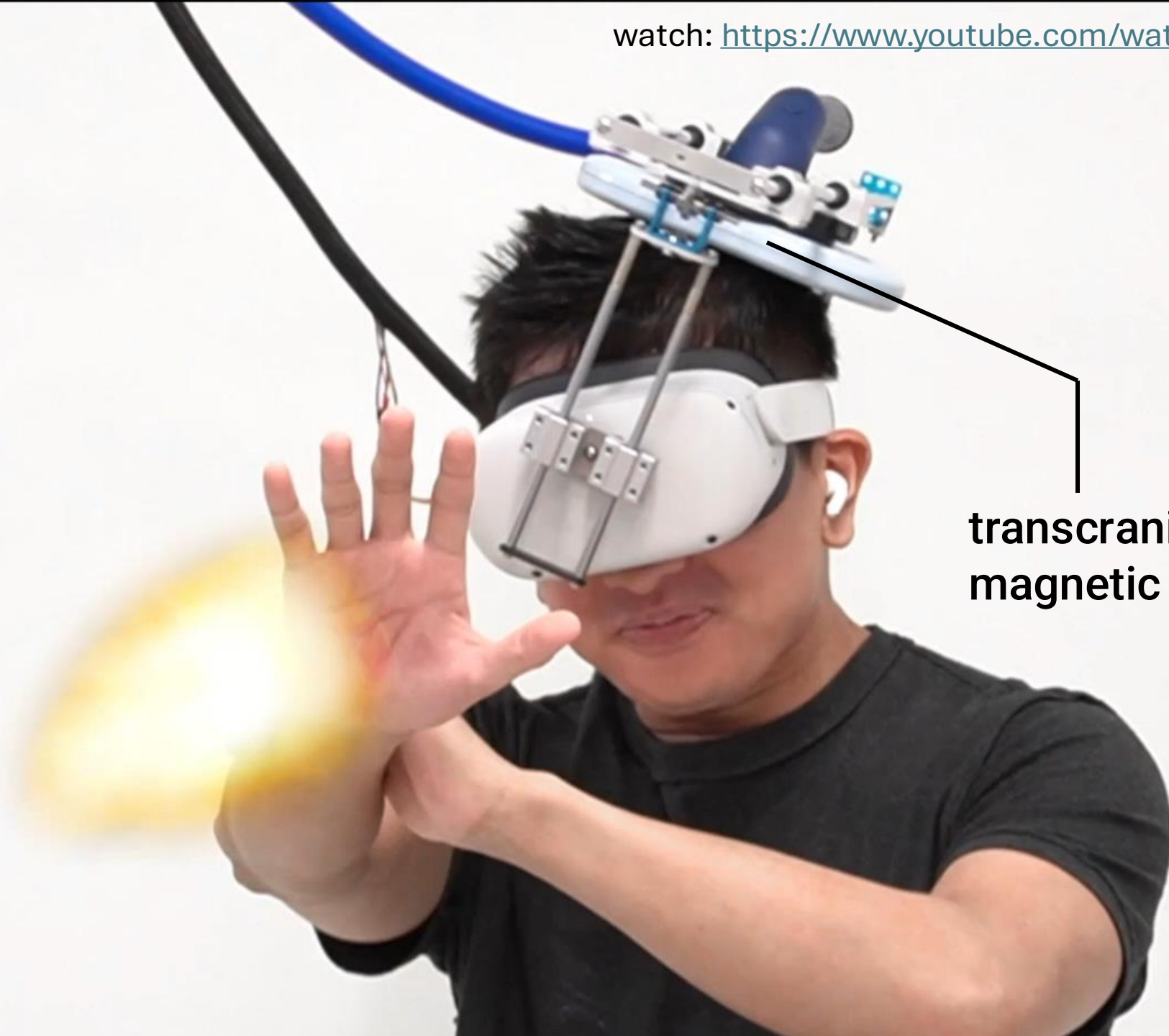


Taste Retargeting UIST'23



yudai tanaka
UChicago

watch: <https://www.youtube.com/watch?v=-Y61l38F81s>



transcranial
magnetic stimulation

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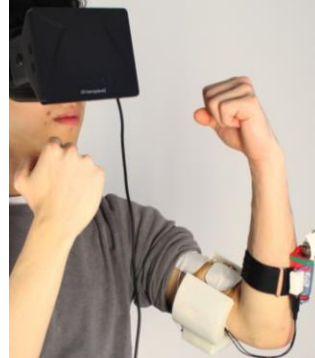
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(...)

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🏆 Best Paper

thanks VR community and

3. body as tactile actuator



Chemical Haptics UIST'21



Back-of-Hand CHI'23
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Source Effector CHI'24
🏆 Honorable Mention

(...)

4. body as taste display



Taste Retargeting UIST'23

let's continue to expand all the body senses in VR

acknowledgements

human computer integration lab



our team



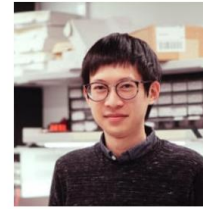
Pedro Lopes (CV)
Assoc. Prof.



Yun Ho
PhD student



Jas Brooks
PhD student



Shan-Yuan Teng
PhD student



Jasmine Lu
PhD student



Romain Nith
PhD Student



Yudai Tanaka
PhD Student



Lonnie Chien
PreDoc



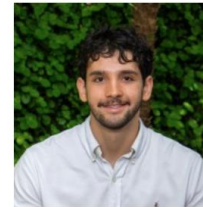
Jocelyn Sun
Ugrad



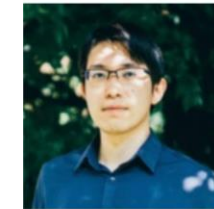
Mithil Guru
Collaborator



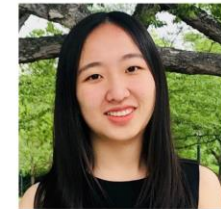
Archit Tamhane
Highschool



Andre De La Cruz
Ugrad



Jun Nishida
Postdoc 2019-22
Now: Assist. Prof. UMaryland



Yujie Tao
Master 2021-22
Now: Stanford PhD



Alex Mazursky
PhD 2020-2025
Now: Apple (Haptics)



Joyce Passananti
Ugrad Spring 2022
Now: UCSB PhD



Arata Jingu
Intern Winter 2022
Now: Saarland PhD



Beza Desta
Ugrad 2023
Now: Princeton MSE