



Yotam Sechayk

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<https://github.com/tomfluff/portfolio>

Personal Information:

Currently a first year Creative Informatics Ph.D. candidate at The University of Tokyo, under the guidance of Prof. Igarashi Takeo and Prof. Shamir Ariel (Reichman University. Graduated Tel-Aviv University with a bachelor's in Computer Science and Film (magna cum laude), and master's in Creative Informatics from the University of Tokyo. I am a hardworking, creative and dedicated individual with great communication skills and passion for knowledge.

Professional Experience:

2023-2024	Honda Research Int. Research Internship	Human understanding project for HRI applications. On arousal-valence based emotional understanding.
2021-2022	The University of Tokyo Creative Informatics Researcher	Working on general accessibility related topics to empower and enhance users.
2018-2020	Cadence Design Systems Software engineer	Multicore engine team. Developing semiconductor verification tools that utilize parallel computing.
2015-2017	Tel Aviv University Head of Technology	Investigate software and hardware solutions to assist students with disabilities, while helping them use these.
2012-2013	Web Development	Creating both dynamic and static websites from scratch. Working with HTML 4, CSS 2/3 and JavaScript libraries.

Education:

2024-Present	The University of Tokyo – Ph.D. in Dep. of Creative Informatics <i>Accessibility tools to enhance online learning, with emphasis on low vision users..</i>
2022-2024	The University of Tokyo – M.Sc. in Dep. of Creative Informatics <i>Accessibility tools to enhance online learning, with new HCI methods for users to interact with online learning video content.</i>
2014-2018	Tel Aviv University – B.Sc. in Computer Science (GPA 90) and Film (GPA 93)

Publications:

- 2024 Sechayk Yotam, Shamir Ariel, Igarashi Takeo. "**SmartLearn: Visual-Temporal Accessibility for Slide-based e-learning Videos**". In Extended Abstracts of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24). Association for Computing Machinery. USA.
- 2024 Sechayk Yotam, Penarska Gabriela A., Randsalu Isa A., Arzate Cruz Christian, Igarashi Takeo. "**MyStoryKnight: A Character-drawing Driven Storytelling System Using LLM Hallucinations**". The 28th Information Processing Society of Japan Symposium (INTERACTION), 2024. Japan.
- 2023 Sechayk Yotam, Shamir Ariel, and Igarashi Takeo. "**Smart Replay: eラーニング動画における視覚的・時間的アクセシビリティの向上**". The 31th Workshop on Interactive Systems and Software (WISS), 2023.

Large Scale Projects:

- 2024 MyStoryKnight (human-AI collaboration) – LLM-based Storytelling Collaboration**
React and Flask based web application to allow users to generate stories together with an adventure style of interactivity. The users use a physical drawing as an input to generate the hero of the story. Then use LLM-suggested choices to continue the story.
(More: <https://tomfluff.github.io/MyStoryKnight/>)
- 2022 HealthUp (prevent food waste) – Sustainability Cloud Powered Project**
React and Django based web application to help prevent food waste and efficiently use food inventory. Manage ingredients and food, find recipes based on inventory list and additional filters, view health attributes of each recipe and handle expired foods correctly.
(More: <https://healthup-0.web.app/>)
- 2017 LyricEd (learn English through music) – Educational WebApp Project**
A python based web application using various API integrations. The website offers gamification of English learning by giving users tools to complete missing lyrics from a song they choose while listening to that song playing. Users can control level, view scores and track progress. (More: <https://github.com/tomfluff/portfolio/tree/master/python/LyricEd>)
- 2016 Sunny Day (realtime sun protection) – eHealth Application Project**
A Xamarin Forms application integrating the Microsoft Band 2 for sun protection and sun-block reminders. The application's backend was built using Microsoft Azure App Services, including SQL databases and SQLite for cloud sync and Azure Blob services. The project also utilized computer-vision image processing implemented in Python with OpenCV.
(More: <https://sunnydayw8w.wixsite.com/sunnyday>)

Qualifications:

- 2018 TOEFL. Score: 110.
- 2010 Programming the .NET Framework 3.5 With C# (High-Tech inst.)

Languages:

Hebrew (native) | **English** (professional) | **Japanese** (intermediate)