

# Nediyana Daskalova - Senior Researcher, AI & HCI

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**Summary:** Skilled mixed-method UX and HCI/AI researcher with a PhD in Human-Computer Interaction and 7+ years of experience in navigating complex challenges at Spotify, Instagram, Microsoft, and Yahoo. Excited about exploring human-AI interaction by focusing on qualitative methods including usability studies, surveys, and interviews and applying machine learning techniques.

## EDUCATION

**PhD, Computer Science** (Human-Computer Interaction), Brown University, Providence, RI, 2014 - 2020

Dissertation: *Personalized Systems for Guided and Flexible Self-Experiments*

**BA with Honors, Computer Science**, Grinnell College, Grinnell, IA, 2010 - 2014

## SKILLS

**UX Research:** Expert in a diverse set of research methods such as interviews, surveys, contextual inquiry, and usability testing. Proficient in **prototyping** (Figma, Protopie, Sketch) and usability tools (usertesting.com, dscout)

**Technical:** Expert in **generative AI** (prompt engineering, fine-tuning and evaluating large language models), **machine learning**, reinforcement learning, Python, SQL, data mining/visualization

**Product:** Effective in **cross-functional collaboration and communication** with engineers, data scientists, designers, product managers and leadership. Proven ability to translate research into product strategy and actionable insights.

## EXPERIENCE

**Spotify, Research Scientist**, since 07/2020 (managers: Jenn Thom, Saw Way)

- Conducted research and developed prototypes to drive strategic generative AI product discovery
- Led and managed 10+ foundational and evaluative mixed-methods studies focused on the understanding of users' interactions and needs, leading to changes to KRs and product roadmaps
- Delivered 15+ LLM-powered user-facing **interactive Figma prototypes** in collaboration with designers, product managers and directors to test out implementation feasibility. This directly informed the vision and product roadmap of [Spotify's AI DJ](#) (available to millions of users in 50 markets, accounting for a third of their listening time)
- Embedded with 3 different product teams and effectively brought direction clarity through research in a fast-changing and ambiguous environment
- Designed [UX-centric methods for human-in-the-loop](#)<sup>3</sup> data collection and pipelines for training recommender systems. Some of these insights were built into the [GoalPods system](#)<sup>2</sup> for enabling podcast discovery

**Brown University, PhD researcher**, 2014-2020 (advisor: Jeff Huang)

- Designed and developed two reinforcement-learning-based systems ([Self-E](#) and [SleepBandits](#)), which automatically collected data from the built-in smartphone sensors and leveraged a multi-armed bandit algorithm to give users actionable insights about their sleep and well-being. Conducted end-to-end research to create and evaluate them.

**Instagram, UX Research Intern**, 2018 (mentor: Sebastian Fite)

- Designed and executed in-lab usability studies, diary studies, and online surveys focusing on discovery
- Collaborated with data scientists, designers, and product managers, and delivered insights and recommendations, leading to substantial strategy shifts for the Search and the Explore Feed

**Microsoft, Research Intern**, 2017 (mentor: Kay Hofmeester)

- Collaborated with a team of designers to deliver new design prototypes every 2 weeks
- Analyzed 40 million Microsoft Band sleep records to identify user cohorts using a nearest neighbor search in k-dimensional space, and built a system to generate personalized sleep recommendations

**Yahoo, UX Research Intern**, 2016 (mentor: Frank Bentley)

- Influenced immediate product design and informed the strategic direction for [future Yahoo Mail feature release](#) by employing **mixed-methods research** (in-lab user studies, diary studies, and online surveys) to elicit user feedback

## SELECTED PUBLICATIONS AND PRESS

1. TastePaths: Enabling deeper exploration and understanding of personal preferences in recommender systems. Intelligent User Interfaces (IUI) 2022. [[Spotify blog](#)]
2. GoalPods: Enabling Goal-Focused Exploration of Podcasts in Interactive Recommender Systems. IUI 2023. [[Spotify](#)]
3. User-Centric Design Methods for Reinforcement Learning. RL4HCI Workshop, [CHI 2021](#)
4. SleepBandits: Guided Flexible Self-Experiments for Sleep. [CHI 2020](#)
5. If a person is emailing you, it just doesn't make sense: Exploring Changing Consumer Behaviors in Email. [CHI 2017](#)