
CONTACT INFORMATION	Computer Science Department Brown University Providence, RI 02912	<i>e-mail:</i> nediyana_daskalova@brown.edu <i>www:</i> www.nediyana.com
RESEARCH INTERESTS	Human-Computer Interaction; health-tracking; self-experiments; sleep tracking; personal informatics; social media; mental health	
EDUCATION	<p>Brown University, Providence, Rhode Island USA</p> <p>Ph.D. Candidate, Computer Science (expected graduation: May 2020)</p> <ul style="list-style-type: none"> • Dissertation Topic: “Designing and Building Behavior-Powered Systems for Self-Experiments” • Adviser: Prof. Jeff Huang <p>M.S., Computer Science, May 2016</p> <p>Grinnell College, Grinnell, Iowa USA</p> <p>B.A. with honors, Computer Science, May 2014</p> <p>Danish Institute for Study Abroad, Copenhagen, Denmark</p> <p>Visiting Student, Positive Psychology, Fall 2012</p>	
CURRENT RESEARCH	<p>SleepCoacher</p> <p>Developed a system, SleepCoacher, which guides users through single-case experiments by collecting raw mobile sensor data and generating personalized, data-driven sleep recommendations based on a collection of templates recommendations created with input from clinicians.</p> <p>Self-Experiments</p> <p>Developed a set of guidelines for running self-experiments based on two cohorts of students. We present these guidelines for future self-experiments and designers of self-experimentation tools.</p>	
RESEARCH EXPERIENCE	<p>Graduate student, Brown University August 2014 - present</p> <p>Collaborated with a sleep clinician and a behavior change researcher on developing SleepCoacher.</p> <p>Research Intern, Microsoft April - June 2017</p> <p>Worked with Jessica Lundin’s team of data scientists and Kay Hofmeester’s UX team on building a system to generate personalized recommendations for improving sleep. Worked on analyzing the existing 40 million sleep records from the Microsoft Band.</p> <p>UX Research Intern III, Yahoo, Inc. June - August 2016</p> <p>Worked with Frank Bentley on all communications products at Yahoo: weekly in-lab user studies, diary studies, and online surveys. Conducted research on the use of email and coupons in email.</p> <p>Undergraduate researcher, Grinnell College June 2013 - May 2014</p> <p>Worked with Prof. Janet Davis to research persuasive technology design methodologies to improve student wellness behaviors (focusing on sleep) at Grinnell College. Used a participatory design approach to create and evaluate experience prototypes.</p>	

PUBLICATIONS

N. Daskalova. “Personalized Behavior-Powered Systems for Guiding Self-Experiments.” CHI Doctoral Consortium 2018. (forthcoming).

N. Daskalova, K. Desingh, A. Papoutsaki, D. Schulze, H. Sha, and J. Huang. “Lessons Learned from Two Cohorts of Personal Informatics Self-Experiments.” UbiComp 2017. (acceptance rate 21%)

N. Daskalova, D. Metaxa-Kakavouli, A. Tran, N. Nugent, J. Boergers, J. McGeary, and J. Huang. “SleepCoacher: A Personalized Automated Self-Experimentation System for Sleep Recommendations.” UIST 2016. (acceptance rate 20.6%)

N. Daskalova, B. Lee, C. Ni, J. Huang, and J. Lundin. “Investigating the Effectiveness of Cohort-Based Sleep Recommendations.” (in submission).

F. Bentley, **N. Daskalova,** N. Andalibi. “If a person is emailing you, it just doesn’t make sense: Exploring Changing Consumer Behaviors in Email.” CHI 2017. (acceptance rate 25%)

A. Papoutsaki, P. Sangkloy, J. Laskey, **N. Daskalova,** J. Huang, and J. Hays. “Webgazer: Scalable webcam eyetracking using user interactions.” IJCAI 2016. (acceptance rate 25%)

N. Daskalova, N. Ford, A. Hu, K. Moorehead, B. Wagnon, J. Davis. “Informing Design of Suggestion and Self-Monitoring Tools through Participatory Experience Prototypes.” Persuasive 2014.

CASE STUDIES

N. Daskalova, F. Bentley, N. Andalibi. “It’s All About Coupons: Exploring Coupon Use Behaviors in Email.” CHI 2017.

F. Bentley, **N. Daskalova,** Brooke White. “Comparing the Reliability of Amazon Mechanical Turk and Survey Monkey to Traditional Market Research Surveys.” CHI 2017.

HONORS AND AWARDS

Invitation & travel grant for CHI’18 Doctoral Consortium	2018
Brown University Travel Grant for CHI’17	2017
Brown University Travel Grant for UbiComp’17	2017
Best Aging in Place Hack at MIT’s Grand Hack 2016	2016
ACM-W Scholarship for UIST’16	2016
Brown University Travel Grant for CHI’16	2016
Brown University Travel Grant for Grace Hopper Celebration of Women in Computing ’16	2016
Invitation & travel grant for CRA-W Grad Cohort Workshop ’16	2016
Invitation & travel grant for CRA-W Grad Cohort Workshop ’15	2015
Brown University Travel Grant for Grace Hopper Celebration of Women in Computing ’14	2014
Dropbox Scholarship for Grace Hopper Celebration of Women in Computing ’13	2013

POSTERS

“DreamCoacher.” **N. Daskalova.** CRA-W Grad Cohort Workshop, San Francisco, CA, 2016.

“Designing Persuasive Technology for Improving Sleep Behaviors.” **N. Daskalova.** Grace Hopper Celebration of Women in Computing, Phoenix, AZ, 2014.

“Participatory Design of Technology to Improve Sleep Habits.” **N. Daskalova.** Midstates Consortium for Math and Science, University of Chicago, IL, 2013.

TECHNICAL SKILLS

Programming Languages: Python, Java, Swift, HTML/CSS, JavaScript, C
Languages: Bulgarian, English; basic knowledge of French, Spanish, Danish, Brazilian Portuguese
Computer: Unix/Linux, Android SDK, Agile Development, Balsamiq, Axure, Xcode, Sketch

TEACHING EXPERIENCE	Graduate Teaching Assistant , Brown University <ul style="list-style-type: none"> • CS1300: User Interfaces. Fall 2015, Fall 2016. • CS2951-r: Personal Informatics Seminar. Spring 2016. 	
	Teaching Assistant and Grader , Grinnell College <ul style="list-style-type: none"> • CS151: Functional Problem Solving. Fall 2013. • CS161: Imperative Problem Solving. Spring 2013, Spring 2014. 	
REVIEWER EXPERIENCE	WWW 2015, CHI 2015, CHI 2016, CSCW 2016, CHI 2017, CHI 2018	
SERVICE	Brown University	
	Event Coordinator, Graduate Women in CS	August 2014 - present
	Diversity Committee Member	January 2018 - present
	Ergo Merc	August 2017 - present
	Panelist for Applying to Graduate School in STEM	March 2017
	Hour of Code Volunteer	December 2016
	PhD Recruitment Coordinator	September 2014 - May 2015
	Department Representative, Graduate Student Council	Spring 2015
	Grinnell College	
	Student Educational Policy Committee	Spring 2015, Fall 2015
	Hall Wellness Coordinator	September 2011 - August 2013
	Social Event Coordinator, International Student Organization	May 2011 - May 2012
RELEVANT COURSEWORK	Brown University <ul style="list-style-type: none"> • Personal Informatics Seminar • Designing & Developing User Interfaces • Human-Computer Interaction Seminar • Data Science • Web Apps • Experimental Data Analysis • Computational Vision • Applied Artificial Intelligence 	Grinnell College <ul style="list-style-type: none"> • Discrete Structures • Analysis of Algorithms • Software Design • Computer Organization and Architecture • Cognitive Psychology & Decision-Making • Behavioral Psychology • Neuroscience of the Social Brain • Positive Psychology
CERTIFICATES	Effective Performance Workshops Brown University	January 2018 - present
	Certificate I: Sheridan Teaching Seminar - Reflective Teaching Brown University	Fall 2015 - Spring 2016
INVITED TALKS	SleepCoacher: A Personalized Automated Self-Experimentation System for Sleep Recommendations. Microsoft Research.	
		April 2017
	Personal Informatics Self-Tracking. Brown University PhD Recruitment Flash Talk.	
		March 2017
	Guest Lecture for User Interfaces class: "Evaluation." Brown University.	
		November 2016

STUDENT
MENTORING

Jina Yoon, Undergraduate Student (2016-2018)
Lisa Wang, Undergraduate Student (2018)
Ishaan Agarwal, Undergraduate Student (2017)
Dominique Moore, Undergraduate Student (2017)
Guillermo Beltran, Undergraduate Student (2015-2017)
Guo Wang, Undergraduate Student (2017)
Heather Sha, Master Student (2017)
Adrienne Tran, Undergraduate Student (2015-2016)
Danaë Metaxa-Kakavouli, Undergraduate Student (2014-2015), now a PhD student at Stanford

SELECTED PRESS

Brown researchers developing new interactive sleep app

Brown University News (November 2016)
<https://news.brown.edu/articles/2016/11/sleepcoach>

Brown scientists developing new self-contained SleepCoacher app

News Medical Life Sciences (November 2016)
<https://www.news-medical.net/news/20161101/Brown-scientists-developing-new-self-contained-SleepCoacher-app.aspx>

How your smartphone can actually improve your sleep

South China Morning Post (February 2017)
<http://www.scmp.com/lifestyle/health-beauty/article/2067203/how-your-smartphone-can-actually-improve-your-sleep>

Novel interactive app to improve sleep

Yahoo News (November 2016)
<https://sg.news.yahoo.com/novel-interactive-app-improve-sleep-083603245.html>

Why Yahoo thinks it may be time to blow up your inbox

FastCompany (S. Melendez, May 2017)
<https://www.fastcompany.com/40419395/why-yahoo-thinks-its-time-to-blow-up-your-inbox>

Yahoo Mail adds new features to help you clip coupons, and stay up-to-date about your flight

PhoneArena (Alan Friedman, November 2016)
https://www.phonearena.com/news/Yahoo-Mail-adds-new-features-to-help-you-clip-coupons-and-stay-up-to-date-about-your-flight_id99888

Be ready to roll on Black Friday with Yahoo Mails handy coupon list

Digital Trends (Christian de Looper, November 2016)
<https://www.digitaltrends.com/mobile/yahoo-mail-coupons-smart-travel-view/>

Yahoo Mail adds coupon clipping and travel alerts

FoxNews (Rich Demuro, November 2016)
<http://fox4kc.com/2017/12/04/yahoo-mail-adds-coupon-clipping-and-travel-alerts/>

An Interdisciplinary Team Including Multiple Brown CS Students Wins An Award At MIT Grand Hack 2016

Brown CS News (Jesse Polhemus, May 2016)
<http://blog.cs.brown.edu/2016/05/05/interdisciplinary-team-brown-wins-award-mit-grand-hack-2016/>

MIT Hacking Medicine Grand Hack 2016

HealthBlawg (David Harlow, May 2016)
<https://healthblawg.com/2016/05/mit-hacking-medicine-grand-hack-2016.html>