Lena (Olena) Mamykina, Ph.D.	Curriculum Vitae, 11/04/2020

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ACADEMIC APPOINTMENTS AND WORK EXPERIENCE

07/2020-present	*Associate Professor of Biomedical Informatics*, Department of Biomedical Informatics, Columbia University Medical Center, NY, NY
07/2019-07/2020	*Florence Irving Associate Professor of Biomedical Informatics*, Department of Biomedical Informatics, Columbia University Medical Center, NY, NY
07/2017–06/2019	*Florence Irving Assistant Professor of Biomedical Informatics*, Department of Biomedical Informatics, Columbia University Medical Center, NY, NY
07/2011–06/2017	*Assistant Professor*, Department of Biomedical Informatics, Columbia University Medical Center, NY, NY.
07/2009–06/2011	*Post-Doctoral Research Fellow*, Department of Biomedical Informatics, Columbia University Medical Center, NY, NY.
08/2005–06/2009	*Graduate Research Assistant*, Georgia Institute of Technology, Atlanta, GA
08/2002–07/2005	*Research Scientist*, Siemens Corporate Research, Inc, Princeton, NJ
02/2001–07/2002	*User Research Specialist*, Elias Arts, Inc., New York, NY
07/2000–01/2001	*User Research Specialist*, Razorfish Inc., New York, NY
08/1998–06/2000	*Graduate Research Assistant*, Georgia Institute of Technology, Atlanta, GA

EDUCATION

08/2009–05/2011	Columbia University, NY, NY, *M.A., Biomedical Informatics*
08/2005–05/2009	Georgia Institute of Technology, Atlanta, GA *Ph.D. Human-Centered Computing (Thesis Advisor: Elizabeth D. Mynatt, PhD. Thesis title: "Reflective Thinking And Appropriate Social Scaffolding In Management Of Diabetes")*
08/1998–05/2000	Georgia Institute of Technology, Atlanta, GA *M.S. Human-Computer Interaction*
09/1990–05/1996	Ukrainian State Maritime Technical University, Nikolayev, Ukraine *B.S. Computer Science*

TRAINING

08/2009–05/2011	Department of Biomedical Informatics, Columbia University, NY, NY, *Post-doctoral fellowship, biomedical informatics*

HONORS AND AWARDS

07/2017	Irving Scholar, Irving Institute for Clinical and Translational Research, Columbia University Medical Center, NY, NY.

04/2011	Paper "Design Lessons from the Fastest Q&A in the West", in the Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems, CHI 2011. Honorable mention (top 5%).
04/2006	Paper "Investigating health management practices of individuals with diabetes". In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems* (Montréal, Québec, Canada, April 22 - 27, 2006, Best Paper Nomination: top 5%)).
08/1999	IBM Research Division Award for "Outstanding Contribution as a Summer Student"

ACADEMIC SERVICE

Chair (and co-Chair):

2019	Pervasive Health, Technical Program Co-Chair
2013–present	American Medical Informatics Association Annual Symposium (AMIA), Student Design Challenge, co-Chair
2016	Workshop on Interactive Systems in Healthcare (WISH 2016), co-hosted with ACM Conference on Human Factors in Computing Systems, CHI 2016
2013	ACM Conference on Pervasive Health, Short Papers and Posters Track, co-Chair
2011	Workshop on Interactive Systems in Healthcare (WISH 2011), co-organized with 2011 AMIA Annual Symposium, Co-Chair.
2010	Pervasive Health Conference, Program Committee Member, Workshops Co-Chair
2010	ACM Conference on Human Factors in Computing Systems (CHI), Work in Progress Associate Chair

Program Committee member:

2013–present	ACM Conference on Human Factors in Computing Systems (CHI)
2014–present	ACM conference on Ubiquitous Computing (UbiComp)
2013	American Medical Informatics Association Annual Symposium (AMIA 2013)
2011	ACM Conference on Health Informatics (IHI)
2011	ACM Conference on Pervasive Computing (Pervasive 2012)
2011	ACM Conference on Pervasive Technologies (Pervasive 2011)
2010	ACM Conference on Health Informatics (IHI)

Grant review panels:

02/2018	National Institute of Health (NIH), Biomedical Computing and Health Informatics Study Section (BCHI, ad-hoc member)
03/2017	National Science Foundation (NSF), Cyber-Human Systems, Computer and Information Science and Engineering (CISE)
10/2017	NSF, CISE Computer Research Initiation Initiative (CRII)
11/2014	Agency for Healthcare Research and Quality (AHRQ, ad-hoc member)
10/2011	NSF, Human-Centered Computing (HCC)
03/2010	NSF, Human-Centered Computing (HCC)
02/2010	Maryland Industrial Partnership, grant reviewer

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

Memberships and positions:

1998–present Association of Computing and Machinery, Special Interest Group on Human-Computer Interaction (SIGCHI)
2009–present American Medical Informatics Association (AMIA)
2009–present New York Academy of Science

Journal/Conference Reviewer:

2018   Academic Medicine
2015-19   Journal of Biomedical Informatics (JBI)
2017   Journal of Human-Computer Interaction (HCI)
2016-19   Journal of the American Association of Medical Informatics (JAMIA)
2016   Transactions of Computer-Human Interaction (TOCHI)
2010   ACM Conference on Groupware (GROUP)
2010   Special Issue of the International Journal of Human-Computer Interaction on "Evaluating new interactions in healthcare: Challenges and approaches", reviewer
2010   ACM Conference on Groupware (GROUP), reviewer
2010   Special Issue of the International Journal of Human-Computer Interaction on "Evaluating new interactions in healthcare: Challenges and approaches", reviewer
2010 – present   Annual Meeting of American Medical Informatics Association (AMIA)
2007 – present ACM Conference on User Interface Design and Technology (UIST)
2007 – present ACM Conference on Computer Supported Cooperative Work (CSCW)
2005 – present ACM Conference on Ubiquitous Computing (UbiComp)
1999 – present ACM Conference on Human Factors in Computing Systems (CHI)

Editorial Board:

2017-2019   Associate Editor, ACM journal on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

FELLOWSHIP AND GRANT SUPPORT

Present Support:

04/19–03/24 National Institute of Diabetes and Digestive and Kidney Disease (NIDDK, 1R01DK113189-01A1, **Principal Investigator**, Direct Funds: $3,002,832), *"Dynamically Tailoring Interventions for Problem-Solving in Diabetes Self-Management Using Self-Monitoring Data - a Randomized Controlled Trial."*
09/19–08/24 National Library of Medicine (NLM, R01 LM012819, co-Investigator, PI: Elhadad, Direct Funds: $1,000,000), *"HarvestPHL: a Holistic, Dynamic, Actionable Personal Health Library"*
09/17–07/21 Agency for Healthcare Research and Quality (AHRQ, R01HS024713-01A1, Co-Investigator, PI: Adelman, Direct Funds: $1,577,033), *"Providing Evidence and Developing a Toolkit to Accelerate the Adoption of Patient Photographs in Electronic Health Records."*

11/15–11/21   National Institute of Nursing Research (NINR, P30 NR016587-01, Co-director of the Precision Medicine Core, PI: Bakken, Direct funds: $1,745,363), "*Precision in Symptom Self-Management (PriSSM) Center.*"

Past support:

2016–2019   Robert Wood Johnson Foundation (RWJF, 73070, **Principal Investigator**, Direct funds: $643,392), "*Promoting improved diabetes self-management and care with continuous self-monitoring and novel data science methods.*"

2017–2018   National Institute of Diabetes and Digestive and Kidney Disease (NIDDK, R56DK113189, **Principal Investigator**, Direct funds: $176,000), "*Dynamically Tailoring Interventions for Problem-Solving in Diabetes Self-Management Using Self-Monitoring Data - a Randomized Controlled Trial.*"

2014–2018   National Science Foundation (NSF 1344668, Co-Investigator, PI: Elhadad, $1,994,224, "*Large-Scale Probabilistic Phenotyping Applied to Patient Record Summarization.*"

2015–2017   Association of Computing and Machinery (ACM, **Principal Investigator**), "*Workshop on Interactive Systems in Health*" (WISH 2016-2017)

2015–2017   National Science Foundation, Smart and Connected Health (NSF, SCH, Grant No. 1551708, **Principal Investigator**, Direct Funds: $126,334) "*Improving Nutritional Literacy and Decision Making with Learner-Centered Crowdsourcing.*"

2014–2017   National Science Foundation, Cyber-Human Systems (Grant No. 1422381, **Principal Investigator,** Direct Funds: $328,315), "*Making sense of information in online discussion boards with novel social computing platforms.*"

2012–2017   National Library of Medicine (NLM, R01 LM009886, Co-Investigator, PI: Weng, $339,041), "*Bridging the Semantic Gap between Research Eligibility Criteria and Clinical Data*".

2011–2016   National Institute of Diabetes and Digestive and Kidney Disease (R01DK090372, **Principal Investigator**, (Multiple PI with George Hripcsak), Direct Funds: $3,060,733), "*HIT for Facilitating Problem-Solving in Diabetes Management.*"

2014–2015   Google Faculty Award (**Principal Investigator**, Direct Funds: $50,000), "*Designing Learner-Centered Crowdsourcing Environments.*"

2012–2013   Nokia Research Award (**Principal Investigator**, Direct Funds: $25,000) "*Nokia Smartphone as a Platform for Chronic Disease Management.*"

2011–2013   James S McDonnell Foundation (JSMF, Grant No. 220020152, Principal Investigator for CUMC (subcontract), PI: Vimla L. Patel), "*Cognitive Complexity and Error in Critical Care.*"

2011–2012   National Science Foundation (NSF, Human-Centered Computing, grant number: 1152556, **Principal Investigator**), "*Workshop on Interactive System in Health (WISH 2011).*"

EDUCATIONAL CONTRIBUTIONS

Direct Teaching:

2014-present	BINF G6002 Methods III: Research Methods, Instructor, Columbia University, New York, NY
2014-present	BINF G4001 Introduction to Computer Applications in Health Care & Biomedicine, guest lecturer on Human-Computer Interaction, Columbia University, New York, NY
2019	BINF G6004 Intelligent Decision Support: History, Paradigms, Applications
2018	Introduction to Precision Medicine, guest lecturer on Digital Health, Columbia University, New York, NY
2017	COMS W4170 (User Interface Design), guest lecturer on Research on Interactive Systems in Health, Columbia University, New York, NY
2015	COMS W4170 (User Interface Design), guest lecturer on Computer-Supported Cooperative Work, Columbia University, New York, NY
2013	Methods of Health Practice Research, Instructor, Columbia University, New York, NY
2010	Cognitive Science in Biomedical Informatics, Graduate Teaching Assistant Columbia University, New York, NY
2000	Qualitative Methods in HCI, Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta, GA
1999	Introduction to HCI, Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta, GA

Advising and Mentorship:

PhD Thesis Advisor:
Elliot Mitchell (2017-present, DBMI); Michelle Chau (2016-present, DBMI); Drashko Nakikj (2013-2019, DBMI), Silis Jiang (2013-2017, DBMI).

PhD Thesis Co-Advisor:
Elizabeth Heitkemper (2013-2017, School of Nursing, CUMC).

PhD Thesis Committee Member:
Daniel Fellow (2017-2020, DBMI), Mollie McKillop (2016-2019, DBMI), Jannet Wollen (2015-2017, DBMI), Lorena Carlos (2012-2014, DBMI).

Post-Doctoral Fellows:
Elizabeth Heitkemper, PhD (2017-2019), Marissa Burgermaster, PhD (2016-2018, DBMI), Maria Hwang, PhD (2016-2018, DBMI); Heather Cole-Lewis, Ph.D., (2012-2013, DBMI).

External Committee Member:
Evgeniy Medynsky, PhD (2015, Georgia Institute of Technology), Naoe Tatara, PhD (2014, Arctic University of Norway).

MS/MA Advisor:

Daniel Greenblatt (2008, M.S. HCI, Georgia Tech); Gregory Delajoux (2005, M.S. CS, Ecole polytechnique fédérale de Lausanne, Switzerland); Kevin Trinn (2004, B.S. CS, University of Waterloo, Canada).

Educational Administration and Leadership

2011-present   Training in Biomedical Informatics, Training Committee Member, An NLM-funded training program for pre- and post-doctoral students in biomedical informatics.
2013-present   Leading the Informatics Interventions Collaborative (I2RC), an interdisciplinary group of researchers and practitioners interested in informatics interventions research

Instructional/Educational Materials used in Print and Media

2013   Lecture materials on information visualization for the Informatics Certificate program

Community Education

2012-2016   Set of lectures on biomedical informatics for the staff of Federally Qualified Community Health Centers participating in the MoDD clinical trial (8 FQHCs).

PATENTS

1. Dai, J.-L., Mamykina O., Masticola, S., McGee, A., Michelis, R., Dapaport D., Remote wellness monitoring and communication, (United States Patent 20060008058)

PEER-REVIEWED RESEARCH PUBLICATIONS IN PRINT OR OTHER MEDIA

Peer-Reviewed Journals

1. Feller, D., Lor, M., Zucker, J, Yin, M.T., Olender, S., Elhadad, N., Mamykina, L., Challenges Associated with Providing Care Management to Large Chronic Disease Populations: A Qualitative Study, *International Journal of Medical Informatics, 2020, 130.*
2. Burgermaster, M., Son, J.H., Davidson, P.G., Smaldone, A.M., Feller, D.J., Kuperman, G., Gardner Burt, K., Levine, M.E., Albers, D.J., Weng, C., Mamykina, L., Development and Validation of a Knowledge Base for Precision Dietary Self-Management of Type 2 Diabetes, *International Journal of Medical Informatics, 2020, 137.*
3. DJ Albers, M Levine, L Mamykina, G Hripcsak, The Parameter Houlihan: a solution to high-throughput identifiability indeterminacy for brutally ill-posed problems. *Mathematical Biosciences, 2019, 316, pp.108-242*
4. Woldaregay, A.Z., Årsand, E., Walderhaug, S., Albers, D.J., Mamykina, L., Botsis, T., Hartvigsen, G., Data-driven modeling and prediction of blood glucose dynamics: Machine learning applications in type 1 diabetes, *Artificial intelligence in medicine*
5. Reading Turchioe, M., Heitkemper, E.M., Lor, M., Burgermaster, M., Mamykina L., Designing for engagement with self-monitoring: a user-centered approach with low-income, Latino adults with Type 2 Diabetes, 2019, *International Journal of Medical Informatics, Volume 130.*

6. Veinot, T., Siek, K.A., Mynatt, E.D., Parker, A., Cole-Lewis, H., Ancker, J., Mamykina, L., Levelling up: On the Potential of Upstream Health Informatics Interventions to Enhance Health Equity, 2019, *Medical Care*, 57, 108-114

7. Woldaregay, A.Z., Årsand, E., Botsis, T., Albers, D.J., Mamykina, L., Hartvigsen, G., Data-driven blood glucose pattern classification and anomalies detection: machine-learning applications in type 1 diabetes, *Journal of medical Internet research, 2019, 21 (5)*.

8. Chau, M., Burgermaster, M., Mamykina, L., The use of social media in nutrition interventions for adolescents and young adults—a systematic review, *International Journal of Medical Informatics, Volume 120, December 2018, Pages 77-91*

9. Albers, D.J., Levine, M.E., Stuart, A., Mamykina, L., Gluckman, B., Hripcsak, G., Mechanistic machine learning: how data assimilation leverages physiologic knowledge using Bayesian inference to forecast the future, infer the present, and phenotype, *Journal of the American Medical Informatics Association* 2018, 25 (10), 1392-1401

10. Feller D., Burgermaster, M., Davidson, P.D., Smaldone, A., Levine, M., Albers, D.J., Mamykina, L., A Visual Analytics Approach for Pattern-Recognition in Patient-Generated Data, *Journal of American Medical Informatics Association*, Volume 25, Issue 10, 1 October 2018, Pages 1366–1374

11. Burgermaster, M., Contento, I., Koch, P., Mamykina, L., Behavior Change Is Not One Size Fits All: Psychosocial Phenotypes of Childhood Obesity Prevention Intervention Participants, *Translational Behavioral Medicine*, Volume 8, Issue 5, 8 September 2018, Pages 799–807, 2018.

12. Heitkemper, E., Mamykina, L., Smaldone, A., Baseline Characteristics and Technology Training of Underserved Adults with Type 2 Diabetes in the Mobile Diabetes Detective (MoDD) Randomized Controlled Trial, *The Diabetes Educator* 43 (6), 576-588, 2017.

13. Mamykina, L., Heitkemper, E.M., Smaldone, A.M., Kukafka, R., Cole-Lewis, H., Davidson, P.G., Mynatt, E.D., Tobin, J.N., Cassells, A., Goodman, C., Hripcsak, G., Personal Discovery in Diabetes Self-Management: Discovering Cause and Effect Using Self-Monitoring Data, *Journal of Biomedical Informatics,* 76, 1-8, 2017.

14. Jiang, S., Murphy, A., Heitkemper, E.M., Hum, R.S., Kaufman, D., Mamykina, L., Impact of an electronic handoff documentation tool on shared mental models within patient care teams, *Journal of Biomedical Informatics,* 69, 24-32, 2017.

15. Mamykina, L., Carter, E., Sheehan, B., Hum, R.S., Twohig, B.C., Kaufman, D.R., Driven to Distraction: the Nature and Apparent Purpose of Interruptions in Critical Care and Implications for HIT, *Journal of Biomedical Informatics*, 69, 24-32, 2017.

16. Albers, DJ, Levine, ME, Gluckman, BJ, Ginsberg, H, Hripcsak, G, Mamykina, L., Personalized Glucose Forecasting for Type 2 Diabetics Using Data Assimilation, *PLoS Computational Biology* 13 (4), 2017.

17. Heitkemper, E., Mamykina, L., Travers, J., Smaldone, A. Do Health Information Technology Self-Management Interventions Improve Glycemic Control in Medically Underserved Adults with Diabetes? A Systematic Review and Meta-Analysis. *Journal of American Medical Informatics Association,* Volume 24, Issue 5, 1024–1035, September 2017.

18. Mamykina, L., Jiang, S., Collins, S.A., Twohig, B., Hirsh, J., Hripcsak, G., Hum, R.S., David Kaufman, D.R., Revealing Structures in Narratives: a Mixed-Methods Approach to Studying Interdisciplinary Handoff in Critical Care, *Journal of Biomedical Informatics,* 62:117-24, 2017.

19. <u>Mamykina, L.</u>, Vawdrey, D., Hripcsak, G., How Do Residents Spend Their Shift Time? A Time and Motion Study With a Particular Focus on the Use of Computers, *Academic Medicine,* 91 (6), 827-832, 2016.

20. <u>Mamykina, L.,</u> Levine, M., Davidson, P., Smaldone, A., Elhadad, N., Albers, D., Data-driven health management: reasoning about personally generated data in diabetes with information technologies, *Journal of American Medical Informatics Association*, 23 (3), 526-531, 2016.

21. <u>Mamykina, L.,</u> Heitkemper, E.M., Smaldone, A.M., Kukafka, R., Cole-Lewis, H., Davidson, P.G., Mynatt, E.D., Tobin, J.N., Cassells, A., Goodman, C., Hripcsak, G., Structured Scaffolding for Reflection and Problem-Solving in Diabetes Self-Management: Qualitative Study of Mobile Diabetes Detective, *Journal of American Medical Informatics Association,* Jan;23(1):129-36, 2016.

22. Cole-Lewis, H., Smaldone, A.M., Kukafka, R., Davidson, P.G., Mynatt, E.D., Tobin, J.N., Cassells, A., Goodman, C., Hripcsak, G., <u>Mamykina, L.,</u> Participatory approach to the development of a knowledge base for problem-solving in diabetes self-management, *International Journal of Medical Informatics,* 85(1):96-103, 2016.

23. <u>Mamykina, L.,</u> Smaldone, A., Bakken S., Adopting Sensemaking Framework for Chronic Disease Self-Management, *Journal of Biomedical Informatics*, 56:406-17, 2015.

24. <u>Mamykina, L.,</u> Hripcsak, G., Vawdrey, D., Stetson, P., 2012 Clinical Documentation: Composition or Synthesis? *Journal of American Medical Informatics Association;* 19:1025-1031, 2012.

25. Cusack CM, Hripcsak G, Bloomrosen M, Rosenbloom ST, Weaver CA, Wright A, Vawdrey DK, Walker J, <u>Mamykina L.</u> The future state of clinical data capture and documentation: a report from AMIA's 2011 Policy Meeting, *Journal of American Medical Informatics Association,* 1;20(1):134-40, 2012.

26. Collins SA, <u>Mamykina L</u>, Jordan D, Stein DM, Shine A, Reyfman P, Kaufman D., In search of common ground in handoff documentation in an Intensive Care Unit, *Journal of Biomedical Informatics,* 45(2):307-15, 2012.

27. Vawdrey DK, Wilcox LG, Collins S, Feiner S, <u>Mamykina L</u>, Stein DM, Bakken S, Fred MR, Stetson PD. Awareness of the Care Team in Electronic Health Records, *Applied Clinical Informatics*, 2(4):395-405, 2011.

28. <u>Mamykina, L.,</u> Mynatt, E.D., 2009. Two Approaches to Interpreting Health and Wellness Information, in *International Journal of Advanced Pervasive and Ubiquitous Computing (JAPUC),* 2009.

29. <u>Mamykina, L.,</u> Candy, L., and Edmonds, E. 2002. Collaborative creativity. In *Communications of ACM (CACM)* 45, 10 (Oct. 2002), 96-99.

Full-Length Papers in Peer-Reviewed Conferences with Archival Proceedings
30. Desai, P., Levine, M., Albers, D., <u>Mamykina, L.,</u> Personal Health Oracle: Explorations of Personalized Predictions in Diabetes Self-Management, to appear in in the Proceedings of the *ACM SIGCHI Conference on Human-Factors in Computing Systems, CHI 2019.*

31. Desai, P., Levine, M., Albers, D., <u>Mamykina, L.,</u> Pictures Worth a Thousand Words: understanding elements of effective health visualizations for low numeracy patients with type 2 diabetes, in in the Proceedings of the *ACM SIGCHI Conference on Human-Factors in Computing Systems, CHI 2018.*

32. Nakikj, D., <u>Mamykina, L.,</u> Lost in Migration: Information Management and Community Building in an Online Health Community, in in the Proceedings of the *ACM SIGCHI Conference on Human-Factors in Computing Systems*, CHI 2018.

33. McKillop, M., <u>Mamykina, L.,</u> Elhadad, N., Designing in the Dark: Eliciting Self-tracking Dimensions for Understanding Enigmatic Disease, in in the Proceedings of the *ACM SIGCHI Conference on Human-Factors in Computing Systems*, CHI 2018.

34. Woldaregay, A.Z., Årsand, E., Giordanengo, A., Albers, D., <u>Mamykina, L.,</u> Botsis, T., Hartvigsen, G., EDMON-A Wireless Communication Platform for a Real-Time Infectious Disease Outbreak De-tection System Using Self-Recorded Data from People with Type 1 Diabetes, Proceedings from *The 15th Scandinavian Conference on Health Informatics 2017 Kristiansand*, Norway, August 29–30, 2018.

35. Hwang, M., <u>Mamykina, L.,</u> Monster Appetite: Effects of Subversive Framing on Nutritional Choices in a Digital Game Environment, in in the *Proceedings of the ACM SIGCHI Conference on Human-Factors in Computing Systems, CHI 2017.*

36. Burgermaster, M., Gajos, K., <u>Mamykina, L.,</u> The Role of Explanations in Casual Observational Learning about Nutrition, in the in the *Proceedings of the ACM SIGCHI Conference on Human-Factors in Computing Systems, CHI 2017.*

37. Nakikj, D., <u>Mamykina, L.,</u> A Park or A Highway: Overcoming Tensions in Designing for Socio-emotional and Informational Needs in Online Health Communities, in the *Proceedings of the ACM Conference on Computer Supported Cooperative Work, CSCW 2017.*

38. <u>Mamykina, L.,</u> Smyth, T., Dimond, J., Gajos, K., Learning From the Crowd: Observational Learning in Crowdsourcing Communities, in the *Proceedings of the ACM SIGCHI Conference on Human-Factors in Computing Systems, CHI 2016.*

39. Nakikj, D., <u>Mamykina, L.,</u> Visualizing Discussion Threads in Online Health Communities with DisViz: Evaluation and User Feedback, in Proceedings of the *Annual Symposium of American Medical Informatics Association 2016.*

40. Clawson, J., Pater J., Miller A., Mynatt, E.D., <u>Mamykina, L.</u>, No Longer Wearing: Investigating the Abandonment of Personal Health-Tracking Technologies on Craigslist, In Proceedings of the *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '15)*. ACM, New York, NY, USA, 647-658, 2015.

41. <u>Mamykina, L.</u>, Nakikj, D., Elhadad, N., Collective Sensemaking in Online Health Community, in the *Proceedings of the ACM SIGCHI Conference on Human-Factors in Computing Systems, CHI 2015.*

42. Jiang, S.Y., Vawdrey, D., Hum, R.S., <u>Mamykina, L.,</u> An Audit Log Analysis of Handoff Documentation Views and Updates, in the *Proceedings of the Annual Symposium of American Medical Informatics Association AMIA, 2015.*

43. Jiang, S.Y., Murphy A., Vawdrey D., Hum, R.S., <u>Mamykina L.,</u> Characterization of a Handoff Documentation Tool Through Usage Log Data, in the *Proceedings of the Annual Symposium of American Medical Informatics Association AMIA, 2014.*

44. <u>Mamykina, L.,</u> Hartman, B., Hripcsak, G., 2011 Design Lessons from the Fastest Q&A in the West, in the *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems*, CHI 2011.

45. <u>Mamykina, L</u>., Miller, A., Medynsky, E., Grovet, C., Terry, M.A., Davidson, P., Mynatt, E.D., 2011 Examining the Impact of Social Tagging on Sensemaking in Nutrition Management, in the *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems*, CHI 2011.

46. <u>Mamykina L.,</u> Miller, A., and Mynatt, E.D., 2010 Constructing Identities through Storytelling in Diabetes Management, in the *Proceeding of the Twenty-Seventh Annual SIGCHI Conference on Human Factors in Computing Systems* (Atlanta, GA, April 12-16). CHI 2010.

47. <u>Mamykina, L.,</u> Mynatt, E., Davidson, P., and Greenblatt, D. 2008. MAHI: investigation of social scaffolding for reflective thinking in diabetes management. In *Proceeding of the Twenty-Sixth Annual SIGCHI Conference on Human Factors in Computing Systems* (Florence, Italy, April 05 - 10, 2008). *CHI 2008*. ACM, New York, NY, 477-486.

48. Lin, J.J., <u>Mamykina, L.</u>, Lindtner, S., Delajoux, G., and Strub, H.B. 2006 Fis'N'Steps: Encouraging Physical Activity with an Interactive Computer Game, in *Proceedings of Ubicomp 2006*, Lecture Notes in Computer Science, Springer Berlin / Heidelberg, Volume 4206/2006, pp. 261-278.

49. <u>Mamykina, L.,</u> Mynatt, E. D., and Kaufman, D. R. 2006. Investigating health management practices of individuals with diabetes. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems* (Montréal, Québec, Canada, April 22 - 27, 2006). R. Grinter, T. Rodden, P. Aoki, E. Cutrell, R. Jeffries, and G. Olson, Eds. CHI '06. ACM, New York, NY, 927-936. (Best Paper Nomination: top 5%)

50. Lee, MD., <u>Mamykina, L.,</u> Harrison, C., Relational and Metaphorical Approaches to Information Visualization: Effects of Age and Graphical Facility, Proceedings of the *Human Factors and Ergonomics Society Annual Meeting*, 49(2), 195-199, 2005.

51. <u>Mamykina, L.,</u> Goose, S., Hedqvist, D., and Beard, D. V. 2004. CareView: analyzing nursing narratives for temporal trends. In *Extended Abstracts of the ACM SIGCHI Conference on Human Factors in Computing Systems* (Vienna, Austria, April 24 - 29, 2004). CHI '04. ACM, New York, NY, 1147-1150.

52. <u>Mamykina, L.,</u> Mynatt, E., and Terry, M. A. 2001. Time Aura: interfaces for pacing. In *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems* (Seattle, Washington, United States). CHI '01. ACM, New York, NY, 144-151.

53. <u>Mamykina, L.</u> and Wolf, C. G. 2000. Evolution of Contact Point: a case study of a help desk and its users. In *Proceedings of the 2000 ACM Conference on Computer Supported Cooperative Work* (Philadelphia, Pennsylvania, United States). CSCW '00. ACM, New York, NY, 41-48.

PEER-REVIEWED ABSTRACTS, PANELS, AND POSTER PRESENTATIONS

1. Mitchell, E.G. Mamykina, L., Characterizing Human vs. Automated Coaching: Preliminary Results, Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems, 2020, pp.1-8.

2. Burgermaster, M., Smaldone, A., Davidson, P.G., Gardner Burt, K., Feller, D.J., Hoon Son, J., Mamykina, L., Glucopilot: A Data-Powered Personalized Nutrition Decision Support System For Diabetes Self-Management, *Annals of Behavioral Medicine*, 2018, Volume 52, pp. S724-S724.

3. Bakken, S., Byrne, M., Mamykina, L., Hickey, K., Data Science and Informatics Provide Critical Infrastructure for Precision Health, *Nursing Research* 67 (2), E35-E36

4. Smaldone, A., Mamykina, L., Assessing the Potential of a Diabetes Self-Management Technology Intervention for Underserved Adults, *Nursing Research* 67 (2), E12-E12

5. Heitkemper, E., Mamykina, L., Cassells, A., Tobin, J., Smaldone, A., Characteristics of Underserved Adults Enrolled in the Mobile Diabetes Detective (MoDD) Randomized Controlled Trial, *Annual Meeting of the American Diabetes Association,* 66, A188-A189, 2017.

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15. Davidson, P., Smaldone, A.M., Mamykina, L. Reaching Underserved Adults with Diabetes Through Interactive Technology: Mobile Diabetes Detective (MoDD), the *Annual Meeting of the American Association of Diabetes Educators (AADE 2016)*

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23. Cole-Lewis, H., Bakken, S., <u>Mamykina, L.,</u> Using participatory design for knowledge acquisition in the development of a web and mobile phone-based tailored patient decision support tool for diabetes self-management in an underserved population, presented at the *Annual Meeting of the Society for Behavioral Medicine,* San Francisco, CA, 2013.

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26. <u>Mamykina, L.,</u> Wilcox, L., Vawdrey, D., Stein, D., Collins, S., Camargo, S., Fred, M., Hripcsak, G., Feiner, S., Designing for Adoption: Living Laboratory for Health IT, presented at the *Workshop on Interactive Systems in Healthcare*, in conjunction with *ACM conference on Human-Factors in Computing Systems* (CHI 2010, Atlanta, GA, April 2010)

27. <u>Mamykina, L.</u>, and Mynatt, E.D., 2009. Supporting diabetes management practices with ubiquitous computing, Engaging Design workshop at the *SIGCHI Conference on Human Factors in Computing Systems*, *CHI'09*

28. <u>Mamykina, L.,</u> Mynatt, E., 2009 Designing Pervasive Health Monitoring Applications for Communities of Users, in *Extended Abstracts of Pervasive'09* May 11-14, Nara, Japan.

29. <u>Mamykina, L.</u> and Mynatt, E. D. 2007. Investigating and supporting health management practices of individuals with diabetes. In *Proceedings of the 1st ACM SIGMOBILE international Workshop on Systems and Networking Support For Healthcare and Assisted Living Environments* (San Juan, Puerto Rico, June 11 - 11, 2007). HealthNet '07. ACM, New York, NY, 49-54.

30. Abowd, G.D., Hayes, G.R., Kientz, J.A., <u>Mamykina L.,</u> Mynatt E.D., Chronic Care Management: An Opportunity for Collaborative Technologies, *Human Computer Interaction Consortium (HCIC)*, HCIC'06, Colorado, USA.

31. <u>Mamykina, L.,</u> Mynatt, E.D., Role of Community Support in Coping with Chronic Diseases: A Case Study of a Diabetes Support Group, *HCI International*, 2005, Las Vegas, Nevada, USA.

32. <u>Mamykina, L.,</u> 2001, Supporting creativity of multidisciplinary teams, Computing for Creativity workshop at *SIGCHI Conference on Human Factors in Computing Systems,* CHI'01.

REVIEWS, CHAPTERS, MONOGRAPHS, EDITORIALS

1. <u>Mamykina, L,</u> Levine, M.E., Davidson, P.G., Smaldone, A., Elhadad, N., Albers, D., From Personal Informatics to Personal Analytics: Investigating How Clinicians and Experts Reason about Personal Data Generated with Self-Monitoring in Diabetes in *Cognitive Informatics in Health and Biomedicine, Springer, 2017.*

2. <u>Mamykina, L.,</u> Hum, RS, Kaufman, DR, (2014) Investigating shared mental models in critical care, in *Cognitive Informatics in Health and Biomedicine*, Patel, Vimla L., Kaufman, David R., Cohen, Trevor (Eds.), Springer, pp: 291-315, 2014

3. Kaufman, DR Abraham, J <u>Mamykina, L.,</u> Communication and Complexity: Negotiating Transitions in Critical Care, in in *Cognitive Informatics in Health and Biomedicine*, Patel, Vimla L., Kaufman, David R., Cohen, Trevor (Eds.), Springer, pp. 235-242, 2014

4. Collins, SA., <u>Mamykina, L.,</u> Jordan, DA., Kaufman, DR., Clinical Artifacts as a Treasure Map to Navigate Handoff Complexity, in *Cognitive Informatics in Health and Biomedicine, Patel, Vimla L., Kaufman, David R., Cohen, Trevor (Eds.), Springer; pp. 317-339, 2014.*

5. Reddy, M., <u>Mamykina, L.,</u> Parker, AG., Designing interactive systems in healthcare: a report on WISH 2011, *interactions 19 (1), 24-27, 2012.*

6. <u>Mamykina, L.,</u> Expertise Sharing in Context of Healthcare and Health Management, *Computer Supported Cooperative Work (CSCW)*, 2010.

7. <u>Mamykina, L.,</u> Mynatt, E.D., An Iterative Discovery Approach in Designing Ubicomp Technologies that Assist Individuals in Managing Diabetes, in Barbara M. Hayes and William Aspray, eds. *Health Informatics: A Patient-Centered Approach to Diabetes,* Cambridge, MA and London, England: MIT Press, 2010.

8. Mynatt, E.D., Abowd, G.D., <u>Mamykina, L.,</u> Keintz, J.A., Understanding the Potential of Ubiquitous Computing for Chronic Disease Management, in Barbara M. Hayes and William Aspray, eds. *Health Informatics: A Patient-Centered Approach to Diabetes* Cambridge, MA and London, England: MIT Press, 2010.

9. <u>Mamykina, L.,</u> Mynatt, E.D., Interpreting Health and Wellness Information in *RFID & Smart Technologies for Information Convergence* (Symonds, J., editor), IGI Global Publications, 2010

10. André, P., White, R., Tan, D., Berners-Lee, T., Consolvo, S., Jacobs, R., Kohane, I., Le Dantec, CA., <u>Mamykina, L.,</u> Marsden, G., Shneiderman, B., Szolovits, P., Weitzner, P., Interacting with eHealth: towards grand challenges for HCI, *CHI'09 Extended Abstracts on Human Factors in Computing Systems*, 2009.

WORKSHOP ORGANIZER (ABSTRACTS):

1. <u>Mamykina, L.,</u> Reddy, M., Siek, K., Liu, L., Marcu, G., Workshop on Interactive Systems in Healthcare (WISH 2016), co-hosted with *2016 ACM Conference on Human-Factors in Computing Systems*, CHI, 2016.
2. <u>Mamykina, L.,</u> Reddy, M., Grimes Parker, A., Workshop on Interactive Systems in Healthcare (WISH 2011), co-hosted with *2011 Annual Symposium of American Medical Informatics Association* (AMIA), 2011.
3. Randell, R., Fitzpatrick, G., Wilson, S., <u>Mamykina, L.,</u> Tang, C., Evaluating new interactions in healthcare: challenges and approaches. Co-hosted with *2009 ACM Conference on Human-Factors in Computing Systems,* CHI'09, Boston, USA, April 4-9, 2009.
4. <u>Mamykina, L.,</u> Bardram, J. E., Korhonen, I., Mynatt, E., and Pratt, W. 2004. HCI and homecare: connecting families and clinicians. *Co-hosted with ASM Conference on Human Factors in Computing Systems,* CHI'04, Vienna, Austria, April 24 - 29, 2004.

INVITED TALKS

Invited talks at other universities and research organizations

10/2018	Invited Seminar Series, Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh, PA
10/2018	Distinguished Speaker Series, T.J. Watson IBM Research Center, White Plains, NY
06/2018	Distinguished Speaker Series, Design@Large, University of California in San Diego, San Diego, CA
04/2018	Invited Seminar Series, Stanford University, Stanford, CA
04/2018	Invited Seminar Series, University of Washington, Seattle, WA
04/2018	Invited panel, Computing Community Consortium workshop on Sociotechnical Interventions for Health Disparity Reduction, co-hosted with the Annual Symposium of the Society of Behavioral Medicine (SBM), New Orleans, LA
03/2018	Invited Seminar Series, Georgia Center for Diabetes Translation Research, Atlanta, GA
03/2018	Invited Seminar Series, Graphics, Usability, and Visualization Center, Georgia Institute of Technology, Atlanta, GA
09/2017	Computer Science Colloquium Series, Paulson School of Engineering and Applied Sciences, Harvard University, Cambridge, MA
12/2016	Arctic University of Norway, Tromso, Norway
04/2016	Columbia University Data Science Institute Annual Symposium, NY, NY
05/2014	Invited Seminar Series, University of Washington, Seattle, WA
11/2013	Invited Panel, Wireless Health conference, Baltimore, MD
12/2008	Robert Wood Johnson Foundation workshop on Personal Health
01/2005	New York Council of Senior Centers and Services (CSCS) 2005 Conference, Gratitude & Growth: Celebrating Diversity in Aging (workshop on Technology in Aging Services: Using it Today and Developing it for Tomorrow)
05/2004	Invited Seminar Series, Columbia University, Department of Biomedical Informatics, New York, NY
04/2004	Thought Leaders Workshop, Rochester University
02/2004	HCI MS annual Open House, Georgia Institute of Technology, Atlanta, GA