

ALIYA AMIROVA, PhD

Population Health Sciences, School of Life Course and Population Sciences, King's College London
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EDUCATION

2021 **PhD Health Psychology** City University of London

Thesis Title: *Factors influencing physical activity among individuals living with heart failure: a mixed-methods study*

EMPLOYMENT

2023-present **Postdoctoral Research Associate in Epidemiology and Biostatistics**,
Department of Population Health Sciences, King's College London

2021-2023 **Postdoctoral Research Associate**, *Health Psychology Section, Institute of Psychiatry & Neuroscience, King's College London*

2020-2021 **Research Assistant**, *Centre for Behavioural Medicine, UCL*

2019-2021 **Research Assistant**, *Department of Population Health Sciences, King's College London*

2016-2018 **Honorary Clinical Observer**, *Imperial College London, Royal Brompton and Harefield NHS Trust*

AWARDS AND FUNDING

2022 Early career award to attend international retreat for young researchers on intersectionality and health care in Bochum, Germany (£900)

2022 Award to give a talk at the Summer School "Intersectionality as a Tool to Prevent Structural Discrimination", Bochum, Germany (£300)

2014 Early career award to attend International Congress of Behavioural Medicine in Groningen, Netherlands (£1000)

2015 PhD studentship, City University of London (£90,000)

SOFTWARE AND PROGRAMMING LANGUAGES

R high proficiency (meta-analysis, computational modelling, Bayesian statistics, multilevel modelling, survival analysis and more)

SPSS, IBM high proficiency

Python High proficiency (eg, LLM-based qualitative research assistant: Github: <https://github.com/AliyaAM>)

SELECTED PUBLICATIONS

1. **Amirova A, Fteropoulli T, Ahmed N, Cowie MR, Leibo JZ (2024)** Framework-based qualitative analysis of free responses of Large Language Models: Algorithmic fidelity. *PLoS ONE* 19(3): e0300024. <https://doi.org/10.1371/journal.pone.0300024>
2. **Amirova A. & Hackett A.R.** (in press, accepted Nov 2023) Perceived discrimination and type 2 diabetes incidence: findings from the Health and Retirement Study. *Health Psychology*.
3. **Amirova, A., Taylor, L., Volkmer, B., Ahmed, N., Chater, A. M., & Fteropoulli, T.** (2023). Informing behaviour change intervention design using systematic review with Bayesian meta-analysis: physical activity in heart failure. *Health Psychology Review*.
4. **Amirova A. & Hackett. A.R.** (2022) Perceived discrimination in middle-aged and older adults in England and the United States. *Frontiers in Public Health*.
5. **Amirova, A., Lucas, R., Cowie, M.R., Haddad, M.** (2022). Perceived barriers and enablers influencing physical activity in heart failure: a qualitative one-to-one interview study. *Plos One*.
6. Bearne, L.M., Volkmer, B., Peacock, J., Sekhon, M., Fisher, G., Holmes, M.N.G., Douiri, A., **Amirova, A.**, Farran, D., Quirke-McFarlane, S., Modarai, B., Sackley, C., Weinman, J., Bieles, J., (2022) Effect of a Home-Based, Walking Exercise Behavior Change Intervention vs Usual Care on Walking in Adults With Peripheral Artery Disease, *JAMA*.
7. Taylor, L., Ranaldi, H., **Amirova, A.**, Zhang, L., Ahmed A., Dibb B. | Daryl O'Connor (Reviewing editor) (2022) Using virtual representations in mHealth application interventions for health-related behaviour change: A systematic review, *Cogent Psychology*.
8. **Amirova, A., Fteropoulli, T., Williams, P., & Haddad, M.** (2021). Efficacy of interventions to increase physical activity for people with heart failure: a meta-analysis. *Open Heart*.
9. Sekhon, M., Godfrey E., **Amirova A.**, Bearne, L. (2021) Applying a theoretical framework to assess the acceptability of therapist training and delivery of the Gait Rehabilitation in Early Rheumatoid Arthritis Trial intervention (GREAT Strides): a qualitative analysis. *International Journal of Behavioural Medicine*.
10. Williams, P., McBain, H., **Amirova, A.**, Newman, S., & Mulligan, K. (2021). Men's beliefs about treatment for erectile dysfunction—what influences treatment use? A systematic review. *International Journal of Impotence Research*.
11. Sekhon, M., White, C., Godfrey, E., **Amirova, A.**, Revenäs, Å., King, S., Bearne, L. (2021). Effectiveness of web-based and mobile health interventions designed to enhance adherence to physical activity for people with inflammatory arthritis: a systematic review. *Rheumatology Advances in Practice*.
12. Bearne, L. M., Sekhon, M., Grainger, R., La, A., Shamali, M., **Amirova, A.**, White, C. M (2020). Smartphone Apps Targeting Physical Activity in People With Rheumatoid Arthritis: Systematic Quality Appraisal and Content Analysis. *JMIR mHealth and uHealth*.
13. **Amirova, A.**, Cropley, M., & Theadom, A. (2017). The effectiveness of the Mitchell Method Relaxation Technique for fibromyalgia symptoms: A three-arm randomized controlled trial. *International Journal of Stress Management*.

DRAFT PUBLICATIONS:

1. Campbell L., Amirova A., Moon Z., Ghaunoni A., Cooper V., Glendinning E. Bondaronek P., Chisari C., King K., Chalder T., Michie S., Ogden D., Kolodin V., Horne R. Interventions to increase adherence to antiretroviral therapy in people living with HIV: systematic review and meta-analysis (SUPA).
2. Trends in the stroke incidence and case fatality from 1999 to 2022: The South London Stroke Register **Amirova, A.**, O'Connell, M., Emmett, E., Wafa, H., Pei, R., Wyatt, D., Wang, Y, Douiri, A., Bhalla, A., Wolfe, C., Marshall, I. Submitting to *Lancet*.

SYMPOSIYA

Bayesian Methods in Health Psychology Symposium: In 2022, I organised the symposium titled "Utility and applications of Bayesian methods in health psychology: theory building and evidence evaluation" at the 36th European Health Psychology Society (EHPS) Conference. This symposium focused on the application of Bayesian methods for advancing theoretical frameworks and evaluating evidence in health psychology: "Utility and applications of Bayesian methods in health psychology: theory building and evidence evaluation. Amirova A., Beard, E. Depaoli S., European Health Psychology Society Conference, 2022. "

Upcoming Symposium at European Health Psychology Conference (2024): I will be presenting at the symposium titled "The use of Artificial Intelligence to collect, analyse and generate qualitative data in health psychology" at an upcoming conference. This symposium, convened by Felix Naughton (University of East Anglia) and Paulina Bondaronek (University College London), will explore AI's role in qualitative research.

I have moderated digital health sessions at the International Conference of Behavioural Medicine, contributing to discussions on the latest advancements in digital health technologies and their applications in behavioural medicine.

SELECTED CONFERENCE PRESENTATIONS

Trends in the stroke incidence and case fatality from 1999 to 2022: The South London Stroke Register **Amirova, A.**, O'Connell, M., Emmett, E., Wafa, H., Pei, R., Wyatt, D., Wang, Y, Douiri, A., Bhalla, A., Wolfe, C., Marshall, I. Stroke Forum UK, 2023.

Framework-Based Qualitative Analysis of Free Responses of Large Language Models: Algorithmic Fidelity. **Amirova, A.**, Fteropoulli, T., Ahmed, N., Cowie, M. R., & Leibo, J. Z. International Conference of Behavioural Medicine, 2023.

Informing Behaviour Change Intervention Design Using Bayesian Meta-analysis. **Amirova, A.**, Taylor, L., Volkmer, B., Ahmed, N., Chater, A. M., & Fteropoulli, T. Presentation: International Behaviour Change Conference. Centre for Behaviour Change (UCL), 2021.

INVITED TALKS

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| 2022 | International Summer School: preventing structural discrimination and health inequalities in health care: <i>The Cumulative Effect of Perceived Discrimination on the Risk of Diabetes Type 2 and Depression in Multiple Minority Groups: Women, Gay, Lesbian, Bisexual Individuals (LGBQ), and Ethnic Minorities.</i> |
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TEACHING

2023	Lecture: "Motivational Interviewing for Physiotherapy". Dr Emma Godfrey, Dr Aliya Amirova, and Denise Bastas, <i>King's College London</i>
2022	Lecture: "Defining, measuring, studying and promoting physical activity." <i>King's College London, MSc Health Psychology Module: Psychosocial Factors in Health and Illness</i>
2022	Discussion group leader: Critical appraisal <i>King's College London, MSc Health Psychology Module: Psychosocial Factors in Health and Illness</i>
2021	Group tutorial leader: Disease management <i>King's College London, MSc Health Psychology Module: Psychosocial Factors in Health and Illness</i>
2021	Marking: Systematic reviews. <i>King's College London, MSc Health Psychology Module: Psychology and Health Care Delivery</i>
2013-2015	Graduate Teaching Assistant: Research Methods and Statistics <i>Medicine MBBS BSc, National Medical University, Almaty, Kazakhstan</i>

SUPERVISION

2021-2022	<i>Amelia Bullock, MSc Health Psychology KCL (Awarded Distinction)</i>
2021-2022	<i>Yasmin Ainanshe, MSc Health Psychology KCL (Awarded Merit)</i>
2023-2024	<i>PhD TPC Committee, Department of Population Health and Sciences, 2023-2024.</i>

PEER REVIEW

Plos One, Health Psychology Review, Sociological Methods and Research, Journal of Public Health Informatics, BMC Health Services Research, Psychosomatic Medicine, Health Psychology and Behavioural Medicine, Cognitive Behavioural Therapy, Intervention Fidelity Ontology: Human Behaviour-Change Project. UCL Centre for Behaviour Change.