Jacquelyn H. Berry, Ph.D.

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Positions

Title	Department and Institution	Dates
Researcher	Astronaut Health and Performance, Andromeda Program, Deep Space Initiative	2023 – now
Founder & CEO	GameChanger Research	2023 – now
Affiliate Faculty	Center for Arts, Migration & Entrepreneurship University of Florida	2023 – now
Assistant Professor	Psychology Dept., American University in Cairo	2022 – now
Visiting Assistant Professor	Psychology Dept., American University in Cairo	2021 – 2022
Fulbright U.S. Scholar	U.S. State Department & Binational Fulbright Commission Cairo, Egypt / American Univ. in Cairo	2019 – 2020
Co-founder, speaker	Artificial Intelligence for Africa, Worldwide	2019 – now
Postdoctoral Scholar	Cognitive Science, Rensselaer Polytechnic Institute	2017 – 2019
Visiting Assistant Professor	Psychology Dept., State Univ New York, New Paltz	2016 – 2017
Lecturer	Psychology Dept., State Univ. New York, New Paltz	2015 – 2016
Adjunct Professor	Psychology Dept., State Univ. New York, New Paltz	2014 – 2015

Education

Degree	Institution	Major Field	Date
Ph.D.	University at Albany, SUNY, Albany, NY	Cognitive Psychology	2013
M.S.	Rensselaer Polytechnic Institute, Troy, NY	Human Factors Psychology	2004
M.B.A.	Rensselaer Polytechnic Institute, Troy, NY	Business Administration	2002
B.S.	Rensselaer Polytechnic Institute, Troy, NY	Psychology	1996

Publications

Journal Articles

Berry, J., (2023) No Next Box, No Experts: A Special Case of Epistemic Behavior in Extreme Expertise. *Journal of Expertise*

Raissi, R., Dimara, E., Berry, J., Gray, W., & Baily, G., (2020) Retroactive Transfer Phenomena in Alternating User Interfaces. *CHI '20*, Honolulu, HI, USA

Gray, W. & Berry, J., (2018) Limits to Training and Expertise in Helicopter Pilots and Tetris Players. Symposium on Learning-to-Learn from Novice to Expertise: New Challenges and Approaches

for One of the Oldest Topics of Cog Science at *Cognitive Science Society Conference* Madison, WI.

Berry, J. (2013) Target uncertainty does not lead to greater singleton distractor interference when target shapes are not interchangeable with nontarget shapes. *Vision Research*, 80, 31-40.

Manuscripts Under Review

Berry, J., Decoding Orthography vs. Mastering Strategy: Explaining the Bilingual Disadvantage When Switching Between Opposite Orientations of Tetris

Berry, J., The Art of the Dirty Tetris: Improvising to Win

Manuscripts in Preparation

Berry, J., A Case Study in Learning Tetris: Mindfulness, not Automaticity, Leads to Winning

Berry, J., Judging Performance? Don't Use Score! Metascore is a Less Variable, More Holistic Performance Indicator in Tetris

Berry, J., Champions Play Tetris Not Tetriminos

Chapters

Berry, J. H., (2015) Changing Directions, In P. Moglia (Ed.), *Salem Health: Adolescent Health & Wellness, first edition* (vol. 3, p. 898). Salem Press/Grey House Publishing: Amenia, NY.

Berry, J. H., (2015) Recency Effects, In P. Moglia (Ed.), *Salem Health: Psychology & Behavioral Health* (4th ed., vol 4, p. 1571). Salem Press/Grey House Publishing: Amenia, NY.

Berry, J. H., (2015) Discipline, In P. Moglia (Ed.), *Salem Health: Psychology & Behavioral Health* (4th ed., vol. 2, p. 560). Salem Press/Grey House Publishing: Amenia, NY.

Berry, J. H., (2015) Geriatric Psychological Disorders, In P. Moglia (Ed.), *Salem Health: Psychology & Behavioral Health* (4th ed., vol 2., p. 812). Salem Press/Grey House Publishing: Amenia, NY.

Books

Berry, J. *Master Tetris, Master Life: How a simple puzzle game can change how you see life.* (Anticipated 2024)

Berry, J. *Find Your Carrot: Stop the Foolishness! Get on with your Authentic Self.* (2021) Golfermoms: New York (#1 Amazon Bestseller)

Datasets

Berry, J. (2022, March 22). Stroop Effect in "Arabizi" Among Arabic-English Bilinguals. https://doi.org/10.17605/OSF.IO/M4TFX

Berry, J. (2022, March 22). SNARC Effect in English Numbers (Arabic Numerals) Among Arabic-English Bilinguals. https://doi.org/10.17605/OSF.IO/5JWNA

Conferences

Keynote Addresses

IPCD--International Psychology Conference Dubai, Heriot-Watt University, Dubai UAE, "*Let's Use Mobile Research Methods to Make Psychology Less Weird*", October 2023

Host/Organizer

CoScie--Inaugural Cognitive Screening and Cognitive Intervention in Egypt, with Dr. Jamie Berry, Senior Clinical Neuropsychologist and Professor at Macquarie University, Sydney Australia, The American University in Cairo, Egypt, November 2023

Cognitive Psychology Conference, The American University in Cairo, Egypt, May 2023 (First in Egypt)

Brain Awareness Conference, The American University in Cairo, Egypt, March 2023 (First in Egypt)

Papers & Symposia

Berry, J., Covarrubias, C., Zaki, R. (2023) *Augmented Cognition: Supporting Astronaut Performance During Mission-Critical Tasks*, 74th International Astronautical Congress, Baku, Azerbaijan,

Berry, J. (2023). *Mobile Psychology Studies Promote Regional Inclusivity in Research* [Conference presentation]. Middle Eastern Psychological Association (MEPA) 6th Annual Convention, Kuwait, Kuwait.

Berry, J. (2023). *How Can We Include Regional Diversity in Neuroscience Research?* [Conference presentation]. Brain Awareness Conference, The American University in Cairo, Cairo, Egypt.

Berry, J. (2021). *Arabic-English Bilingualism: Human Computer Interaction and Psycholinguistic Effects* [Conference presentation]. Paradoxes, Promises, and Paradigms Conference. University of Florida, Gainesville, FL.

Berry, J. (2016). *Research Methods: Translating A Computer Lab into an Online Format* [Conference presentation]. D.A.S.H. Laboratory, SUNY New Paltz, New Paltz, NY.

Berry, J. (2016). *Research Methods: A Pillar Course Reaches New Horizons* [Conference presentation]. 30th Annual Conference on the Teaching of Psychology: Ideas & Innovations, Farmingdale College, Tarrytown, New York

Posters

Covarrubias, C., Berry, J., Zaki, R. *Exploring Augmented Cognition in Extravehicular Activities During Space Flight*, Interstellar Research Group, McGill University, Montreal Canada, July 2023

Berry, J. *A FIRST! SNARC Effect in Native Arabic Speakers;* Poster presented at the Cognitive Science Society and Psychonomic Conferences; Online (2020)

Berry, J. *Bidirectional Biliteracy: Separate Representations Means Less Facilitation*; Poster presented at the Cognitive Science Society and Psychonomic Conferences; Online (2020)

Berry, J. *HOT: Higher Order Tetris, Experts' Subgoals and Activities*; Poster presented at the Cognitive Society Conference (2019) Montreal, Canada

Berry, J. *Intertrial Priming and Target Certainty Both Affect Singleton Distractor Interference During Visual Search*; (2016) Poster presented at the 39th European Conference on Visual Perception, Barcelona, Spain

Berry, J. *Three Factors Affect the Age Difference in Mixing Costs in the Task Switch Paradigm; (*2016) Poster presented at the Biannual Cognitive Aging Conference, Atlanta, GA

Invited Talks and Panels

Berry, J. *Arabic-English Biliteracy: HCI and Psycholinguistic Effects.* A talk given to the University of Florida, AI4Afrika: Paradoxes, Promises and Paradigms Conference, Gainesville, Florida, (2021)

Berry, J. *How Does Arabic-English Biliteracy Affect Switching Between Technology Interfaces?* A presentation for the AI for Good Global Summit 2020, United Nations, Geneva Switzerland, (2020)

Berry, J. *Cognitive Effects of Bidirectional Biliteracy,* Fulbright Speaker Series, American Center in Cairo, U.S. Embassy Cairo, Egypt, (2020)

Berry, J. *What Can Arabic-English Bilinguals Tell Us About Using Technology?* A Presentation for the Humanities & Social Sciences Networking Event, Binational Fulbright Commission, Cairo, Egypt, (2020)

Berry, J. *What can Arabic-English Biliterates tell us about using Technology?* A Presentation for the 5th Fulbright Annual Egyptian Alumni Conference in Zamalek, Egypt, (2019)

Guest Lectures and Presentations

Berry, J. Faculty Research Pitch Competition: *Can People Learn Faster with AI help?* The American University in Cairo, New Cairo, Egypt, (2023)

Berry, J. The techQualia Gallery, Synapse Analytics, panelist speaker, The Sultan Hussein Kamel Palace, Cairo, Egypt, (2022)

Berry, J. *Video Games in Life, Work, and Play: Tool or Folly?* America 101: Language & Culture, American Center in Cairo, United States Embassy, Cairo, Egypt, (2021)

Berry, J. *Where to Look and What to See?* A talk given to the Performance and Technology class, Duke University, (2021)

Berry, J. *Cooking, Carrots, and Creativity.* A presentation for the American Center in Cairo, U.S. Embassy Cairo, Egypt, (2020)

Berry, J. *Cooking, Carrots, Creativity, and Currency: Using Quarantine to Reach Your Goals.* School of Continuing Education, American University in Cairo, (2020)

Berry, J. *Arabic-English Biliteracy: HCI and Psycholinguistic Effects.* Department of Psychology, Cornell University, (2020)

Berry, J. *Arabic-English Bilinguals: Human Computer Interaction and Psycholinguistic Effects.* HARP Lab Brownbag Series, The American University in Cairo, Cairo, Egypt, (2021)

Current Research Projects

AI in Mobile Tetris – With a team of developers I have created a mobile application for the research version that collects all of the research metrics measured in the laboratory. I am preparing to test if the outcomes will be canonical with the laboratory version.

Mobile Tetris Eye tracking – I am working on a project to install eye-tracking in a mobile version of the research game.

Space Fortress – A popular game for studying learning and expertise, I have created a mobile version. I am preparing to test if the outcomes will be canonical with the laboratory version.

AUC, Ain Shams, and Mansoura University Collaboration – In this project we are measuring executive function in illiterates, monoliterates, and Arabic-English biliterates, between 18 and 80, using the GameChanger mobile application, computer and paper pencil tests, and eye-tracking.

Tetris Eye tracking – I am working on a project with a developer to judge how often players use the AI tool while playing.

Astronaut Health and Performance – I am now working on ways to improve human performance during space missions, with Astronaut Sara Sabry and the Deep Space Initative, during short and long-term space missions with a team at McGill University in Canada and at Ain Shams University in Egypt.

Grants and Fellowships

Office of the Associate Provost for Research, Innovation and Creativity in The American University in Cairo: Eye Tracking in Mobile Research (2023-2025)

Office of Research and Creativity Advancement in The American University in Cairo; Internal Initiatives in Humanities and Social Sciences: AI Tutor in Tetris (2022)

Fulbright U.S. Scholar Award –Academic Year Joint Teaching and Research Award, at the American University in Cairo, New Cairo, Egypt, (2019-2020)

Harvard University – Visiting fMRI Fellowship at the MGH/HST Biomedical Imaging Center in Cambridge, MA, (2017)

Courses Taught

Cognitive Psychology	Memory and Cognition
The Science of Expertise	Psychology of Aging
Introduction to Psychology	Psychology of Language

Research Methods in Psychology   Sensation and Perception

Service and Memberships

Academic Affairs Committee (AUC)

Cognitive Science Society

Department Review Committee (AUC)

Faculty Senate (AUC)

Faculty Affairs committee (AUC)

International Astronautical Federation (DSI)

Psychonomic Society

Middle East Psychological Association (MEPA)

Psychology department self-study and curriculum committees (SUNY)

Reviewer: Annual Teaching of Psychology Student Conference, Farmingdale, NY

Reviewer: Laterality, Asymmetries of Body, Brain, and Cognition