

# Madhur Mangalam, Ph.D.

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## WORK EXPERIENCE

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### NORTHEASTERN UNIVERSITY | POSTDOCTORAL FELLOW

MOVEMENT NEUROSCIENCE LABORATORY, DEPARTMENT OF PHYSICAL THERAPY, MOVEMENT, AND REHABILITATION SCIENCE

January 2019 – Present | Boston, MA

w/ Prof. Eugene Tunik

## EDUCATION

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### UNIVERSITY OF GEORGIA | PH.D.

BEHAVIOR AND BRAIN SCIENCES PROGRAM, DEPARTMENT OF PSYCHOLOGY

August 2014 – December 2018 | Athens, GA

*Dissertation:* The biomechanics of multi-joint posture and movement control in wild bearded capuchin monkeys using stone hammers.

w/ Prof. Dorothy M. Fragaszy, Prof. Karl M. Newell, & Prof. Dean Sabatinelli

### UNIVERSITY OF MYSORE | RESEARCH ASSISTANT

DEPARTMENT OF PSYCHOLOGY

July 2012 – July 2014 | Mysore, KA, India

w/ Prof. Mewa Singh

### INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE | DUAL DEGREE B.S.–M.S.

LIFE SCIENCES

August 2007 – May 2012 | Pune, MH, India

*Thesis:* Strategies in novel food extraction tasks and responses to perceived threats in urban free-ranging dogs, *Canis familiaris*.

w/ Prof. Mewa Singh

## RESEARCH INTERESTS

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Biomechanics | Human Factors & Tool Use | Motor Control | Perception & Action | Sensorimotor Embodiment

## PEER-REVIEWED PUBLICATIONS\*

\*Names of undergraduate mentees are underlined>.

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**Mangalam, M.**, Conners, J. D., & Singh, T. (2018). Muscular effort differentially mediates perception of heaviness and length via dynamic touch. *Experimental Brain Research* (In press).

**Mangalam, M.**, Rein, R., & Fragaszy, D. M. (2018). Bearded capuchin monkeys use joint synergies to stabilize the hammer trajectory while cracking nuts in bipedal stance. *Proceedings of the Royal Society of London B: Biological Sciences* (In press).

**Mangalam, M.**, Pacheco, M. M., Fragaszy, D. M., & Newell, K. M. (2018). Perceptual learning of tooling affordances of a jointed object via dynamic touch. *Ecological Psychology* 30(4), xxx-xxx.

**Mangalam, M.** (2018). Emergent coordination with a brain-machine interface: Implications for the neural basis of motor learning. *Journal of Neurophysiology* 120(3), 889–892.

**Mangalam, M.**, Conners, J. D., Fragaszy, D. M., & Newell, K. M. (2018). Location of a grasped object's effector influences perception of the length of that object via dynamic touch. *Experimental Brain Research* 236(7), 2107–2121.

**Mangalam, M.** & Fragaszy, D. M. (2018). Reply to “Tool use and dexterity: Beyond the embodied theory.” *Animal Behaviour* 139, e5–e8.

Fragaszy D. M. & **Mangalam, M.** (2018). Tooling. *Advances in the Study of Behavior* 50, 177–241.

**Mangalam, M.**, Wagman, J. B., & Newell, K. M. (2018). Temperature influences perception of the length of a grasped object via effortful touch. *Experimental Brain Research* 236(2), 505–516.

**Mangalam, M.**, Pacheco, M. M., Izar, P., Visalberghi, E., & Frigaszy, D. M. (2018). Unique perceptuomotor control of stone hammers in wild monkeys. *Biology Letters* 20170587.

**Mangalam, M.**, Barton, S. A., Wagman, J. B., Frigaszy, D. M., & Newell, K. M. (2017). Length of an object perceived through dynamic touch remains invariant across changes in the medium. *Attention, Perception, & Psychophysics* 79(8), 2499–2509.

**Mangalam, M.**, Newell, K. M., Visalberghi, E., & Frigaszy, D. M. (2017). Stone-tool use in wild monkeys: Implications for the study of the body-plus-tool system. *Ecological Psychology* 29(4), 300–316.

**Mangalam, M.** (2016). What makes a tool. In Shackelford, T. K. & Weekes-Shackelford, V. A. (Eds.), *Encyclopaedia of Evolutionary Psychological Science* (pp. 1–5). New York, NY: Springer.

**Mangalam, M.** & Frigaszy, D. M. (2016). Transforming the body-only system into the body-plus-tool system. *Animal Behaviour* 117, 115–22.

**Mangalam, M.**, Desai, N., & Singh, M. (2016). Division of labor in hand usage: A democratic approach to explaining manual asymmetries in non-human primates. *Current Science* 110(9), 1630–1638.

**Mangalam, M.**, Izar, P., Visalberghi, E., & Frigaszy, D. M. (2016). Task-specific temporal organization of percussive movements in wild bearded capuchin monkeys. *Animal Behaviour* 114, 129–137.

Classen, D., Kiessling, S. E., **Mangalam, M.**, Kaumanns, W., & Singh, M. (2016). Fission-fusion species under restricted housing conditions: A comparative study of inter-individual interactions and physical proximity in captive bonobos and Bornean orangutans. *Current Science* 110, 139–150. \*Cover Page Article

**Mangalam, M.**, Desai, N., & Singh, M. (2016). Self-organization of laterally asymmetric movements as a consequence of space-time optimization. *Journal of Theoretical Biology* 390, 50–60.

Zaunmair, P., **Mangalam, M.**, Kaumanns, W., Singh, M., & Slotta-Bachmayr, L. (2015). Patterns of dominance relationships among the females of a captive female-only group of lion-tailed macaques (*Macaca silenus*) during the course of the introduction of a new adult male. *Current Science* 109(4), 803–807.

**Mangalam, M.** & Frigaszy, D. M. (2015). Quantifying affordances. In Weast-Knapp, J., Malone, M., & Abney, D. (Eds.), *Studies in Perception and Action XIII* (pp. 199–202). New York, NY: Psychology Press.

**Mangalam, M.** & Karve, S. M. (2015). Comment on “Number-space mapping in the newborn chick resembles humans’ mental number line.” *Science* 348(6242), 1438–b.

**Mangalam, M.** & Frigaszy, D. M. (2015). Wild bearded capuchin monkeys crack nuts dexterously. *Current Biology* 25(10), 1334–1339.

**Mangalam, M.**, Desai, N., & Singh, M. (2015). Division of labor in hand usage is associated with higher hand performance in free-ranging bonnet macaques, *Macaca radiata*. *PLoS ONE* 10(3), e119337.

Sfar, N., **Mangalam, M.**, Kaumanns, W., & Singh, M. (2014). A comparative assessment of hand preference in captive red howler monkeys, *Alouatta seniculus* and yellow-breasted capuchin monkeys, *Sapajus xanthosternos*. *PLoS ONE* 9(10), e107838.

**Mangalam, M.**, Desai, N., & Singh, M. (2014). Do right-handed monkeys use the right cheek pouch before the left? *PLoS ONE* 9(5), e97971.

**Mangalam, M.**, Desai, N., & Singh, M. (2014). Division of labor in hand usage in free-ranging bonnet macaques, *Macaca radiata*. *American Journal of Primatology* 76(6), 576–585.

**Mangalam, M.** & Singh, M. (2013). Flexibility in food extraction techniques in urban free-ranging bonnet macaques, *Macaca radiata*. *PLoS ONE* 8(12), e85497.

**Mangalam, M.** & Singh, M. (2013). Differential foraging strategies: Motivation, perception and implementation in urban free-ranging dogs, *Canis familiaris*. *Animal Behaviour* 85(2), 763–770.

**Mangalam, M.** & Singh, M. (2013). Sex and reproductive state influence the rate of resource acquisition and monopolisation in urban free-ranging dogs, *Canis familiaris*. *Behaviour* 150(4), 199–213.

Das, S., Dutta, S., **Mangalam, M.**, Verma, R., Rath, S., Singh, M., & Kumara, H. (2011). Prioritizing remnant forests for the conservation of Mysore slender lorises (*Loris lydekerianus lydekerianus*) in Karnataka, India through estimation of population density. *International Journal of Primatology* 32(5), 1153–1160.

## NON PEER-REVIEWED PUBLICATIONS\*

\*Names of undergraduate mentees are underlined.

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Rodriguez, I. & **Mangalam, M.** (2018). Motor thalamus and the neural control of ballistic movements. *Journal of Neuroscience* (Under review).

Karve, S. M. & **Mangalam, M.** (2016). Junior researchers: Hasty publication compromises rigour. *Nature* 531(7594), 305.

Nettimi, R. P., **Mangalam, M.**, & Singh, M. (2015). Why not be an early bird researcher? *Current Science* 108(6), 1027–1028.

## MANUSCRIPTS\*

\*Names of undergraduate mentees are underlined.

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Fragaszy D. M. & **Mangalam, M.** Controlling external degrees of freedom in humans and monkeys. (In preparation).

**Mangalam, M.**, & Fragaszy, D. M. Postural control: A neglected issue in the study of tooling. (In preparation).

**Mangalam, M.**, Rein, R., Hafeez, P. A., & Fragaszy, D. M. Joint synergies and motor skill in wild monkeys using stone hammers to crack open nuts. (In preparation).

**Mangalam, M.**, Lambert, S. L., & Fragaszy, D. M. The limitations of bottom-up multisensory integration in the sense of body ownership and agency. (In preparation).

**Mangalam, M.**, Cutts, S. A., & Fragaszy, D. M. Synchronous multisensory signals underlie the extension of the peripersonal space. (In preparation).

**Mangalam, M.**, Conners, J. D., & Singh, T. Multifractality and long-range cross-correlation behavior in information is implicated in perception via dynamic touch. (In preparation).

Conners, J. D. & **Mangalam, M.** Perceptual invariance in tactile perception. (In preparation).

**Mangalam, M.**, Roles, L. K. R., & Fragaszy, D. M. Shared and distinct perceptuomotor control of stone hammers in humans and wild bearded capuchin monkeys. (In preparation).

## MEDIA COVERAGE OF RESEARCH\*

\*Names of undergraduate mentees are underlined.

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**Mangalam, M.**, Pacheco, M. M., Izar, P., Visalberghi, E., & Fragaszy, D. M. (2018). Unique perceptuomotor control of stone hammers in wild monkeys. *Biology Letters* 20170587.

### Featured in:

*The Franklin Chronicles* New primate behavior study: Perceiving kinetic energy

**Mangalam, M.**, Barton, S. A., Wagman, J. B., Fragaszy, D. M., & Newell, K. M. (2017). Length of an object perceived through dynamic touch remains invariant across changes in the medium. *Attention, Perception, & Psychophysics* 79(8), 2499–2509.

### Featured in:

*Psychonomic Society* The eigenvalues of lightsabers and submerged golden hammers

**Mangalam, M.**, Izar, P., Visalberghi, E., & Fragaszy, D. M. (2016). Task-specific temporal organization of percussive movements in wild bearded capuchin monkeys. *Animal Behaviour* 114, 129–137.

### Featured in:

*Animal Behaviour* On tool use, and becoming human

*Journal of Experimental Biology* Monkeys alter tool use for different tasks

Zaunmair, P., **Mangalam, M.**, Kaumanns, W., Singh, M., & Slottha-Bachmayr, L. (2015). Patterns of dominance relationships among the females of a captive female-only group of lion-tailed macaques (*Macaca silenus*) during the course of the introduction of a new adult male. *Current Science* 109(4), 803–807.

### Featured in:

**Current Science** Society of lion-tailed macaques

**Mangalam, M. & Fragaszy, D. M. (2015).** Wild bearded capuchin monkeys crack nuts dexterously. **Current Biology** 25(10), 1334–1339.

### Featured in:

**BBC Radio** Monkey nuts

**Daily Mail** This is how you should be cracking nuts!

**Der Spiegel** Raffinierte technik: So knacken affen nüsse

**Discovery News** Monkeys show how to perfectly crack a nut

**EurekaAlert!** Wild bearded capuchin monkeys really know how to crack a nut

**Huffington Post** Clever monkey demonstrates the proper way to crack a nut

**Live Science** Nut-cracking monkeys show humanlike skills

**Mental Floss** These monkeys wield makeshift hammers and anvils

**National Geographic** Nut-bashing monkeys offer window into human evolution

**Nature World News** These nut cracking monkeys would make great blacksmiths - use a hammer and anvil with deft

**New Scientist** Capuchin monkeys rival chimps as highly skilled nut-crackers

**Pacific Standard** Monkeys with talented hands

**Science News** Rock-wielding monkeys make adjustments when cracking nuts

**Science Shot** Clever monkeys adjust how hard they hammer nuts

**The New York Times** Monkeys provide clues to how tool use developed

Nettimi, R. P., Mangalam, M., & Singh, M. (2015). Why not be an early bird researcher? **Current Science** 108(6), 1027–1028.

### Featured in:

**The Indian Express** Education system does not foster the spirit of inquiry

Das, S., Dutta, S., **Mangalam, M.**, Verma, R., Rath, S., Singh, M., & Kumara, H. (2011). Prioritizing remnant forests for the conservation of Mysore slender lorises (*Loris lydekerianus lydekerianus*) in Karnataka, India through estimation of population density. **International Journal of Primatology** 32(5), 1153–1160.

### Featured in:

**The Hindu** Loris clings on precariously here

**The Times of India** Study moots conservation of slender loris' habitat

## RESEARCH FUNDING

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2017-19 **Committee for Research and Exploration, National Geographic Society | USD 29,226** WW-051R-17  
"Nut-cracking in wild bearded capuchin monkeys: Patterns of coordination in movements"  
w/ Dorothy M. Fragaszy, Patrícia Izar, & Elisabetta Visalberghi

2016 **Innovative and Interdisciplinary Research Grant | USD 1,000**  
Graduate School, University of Georgia

## PUBLISHED ABSTRACTS

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**Mangalam, M. (2018).** Haptic perception in motor control, at land, in water, in air, and in space, of a fish's fin, a flamingo's neck, a monkey's tail, a snake's spine, and a bat's wing. **Integrative & Comparative Biology** 58(suppl\_1), e143.

**Mangalam, M. & Fragaszy, D. M. (2018).** Joint synergies in nut cracking in wild bearded capuchin monkeys. **Integrative & Comparative Biology** 58(suppl\_1), e371.

**Mangalam, M.,** Matheus, M. M., & Fragaszy, D. M. (2017). How wild bearded capuchin monkeys crack nuts. *Integrative & Comparative Biology* 57(suppl\_1), e337.

**Mangalam, M.,** Roles, L. K. R., & Fragaszy, D. M. (2017). Wild bearded capuchin monkeys outperform humans in cracking nuts. *Integrative & Comparative Biology* 57(suppl\_1), e104.

**Mangalam, M.** & Fragaszy, D. M. (2016). Embodied foundations of stone tool use shared by humans and bearded capuchin monkeys. *American Journal of Physical Anthropology* 159(S62), 218.

**Mangalam, M.** & Fragaszy, D. M. (2015). Wild bearded capuchin monkeys crack nuts dexterously. *Proceedings of the XVIII International Conference on Perception–Action* 86.

## ORAL PRESENTATIONS

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- 2018 **International Society for Ecological Psychology** Normal, IL | June 27–28  
Wild monkeys structure motor variability to stand bipedally while using stone hammers.
- 2018 **Department of Organismal Biology and Anatomy, University of Chicago** Chicago, IL | March 12  
What stone tool using wild monkeys can tell us about prehistoric toolmakers and cyborgs.
- 2018 **Society for Integrative & Comparative Biology** San Francisco, CA | Jan 3–7  
Haptic perception in motor control, at land, in water, in air, and in space, of a fish's fin, a flamingo's neck, a monkey's tail, a snail's foot.
- 2017 **American Society for Primatologists** Washington, DC | Aug 25–28  
Identifying distinguishing features of perceptuomotor control of stone tools in humans and bearded capuchin monkeys.
- 2017 **7th Annual Graduate Students & Postdocs in Science Day**, University of Georgia, Athens, GA | April 17  
Perceptual-motor control of stone tools in wild monkeys: Implications for the origins of stone-tool manufacture in hominins.
- 2017 **40th Annual Psi Chi Convention**, University of Georgia, Athens, GA | April 14  
Perceptual-motor control of stone tools in wild monkeys: Implications for the origins of stone-tool manufacture in hominins.
- 2017 **Society for Integrative & Comparative Biology** New Orleans, LA | Jan 4–8  
How wild bearded capuchin monkeys crack nuts.
- 2016 **International Society for Ecological Psychology** Clemson, SC | June 20–22  
Biomechanical analysis of the affordances of anvil-and-hammer tools in wild bearded capuchin monkeys.
- 2016 **American Association of Physical Anthropologists** Atlanta, GA | April 13–16  
Embodied foundations of stone tool use shared by humans and bearded capuchin monkeys.
- 2015 **XVIII International Conference on Perception–Action** Minneapolis, MN | July 14–18  
Wild bearded capuchin monkeys crack nuts dexterously.

## POSTER PRESENTATIONS

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- 2018 **International Society for Ecological Psychology** Normal, IL | June 27–28  
Point of percussion influences perception of the length of a wielded object via dynamic touch by striking.
- 2018 **Society for the Neural Control of Movement** Santa Fe, NM | April 30–May 4  
Wild monkeys structure motor variability to maintain a stable bipedal stance while using stone hammers.
- 2018 **Society for Integrative & Comparative Biology** San Francisco, CA | Jan 3–7  
Joint synergies in nut cracking in wild bearded capuchin monkeys.
- 2017 **Society for Integrative & Comparative Biology** New Orleans, LA | Jan 4–8  
Wild bearded capuchin monkeys outperform humans in cracking nuts.
- 2016 **International Society for Ecological Psychology** Clemson, SC | June 20–22  
Wild bearded capuchin monkeys use their semi-prehensile tail as a cantilever of adjustable length.
- 2015 **XVIII International Conference on Perception–Action** Minneapolis, MN | July 14–18  
Quantifying affordances.

## PROFESSIONAL MEMBERSHIPS

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## AD-HOC REVIEWERSHIPS

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*Animal Cognition* | *Behavioural Processes* | *Behavioural Brain Research* | *Biology Letters* | *Current Science* | *Journal of Biosciences* | *Journal of Comparative Psychology* | *Nature*

## AWARDS, FELLOWSHIPS, & GRANTS

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- 2018 **Departmental Teaching Assistantship | USD 15,642**  
Department of Psychology, University of Georgia
- 2018 **Graduate School Travel Grant | USD 775**  
Graduate School, University of Georgia
- 2017-18 **Departmental Teaching Assistantship | USD 21,660**  
Department of Psychology, University of Georgia
- 2017 **Graduate School Travel Grant | USD 775**  
Graduate School, University of Georgia
- 2017 **Walter Isaac Travel Award | USD 300**  
Department of Psychology, University of Georgia
- 2016-17 **Departmental Teaching Assistantship | USD 18,696**  
Department of Psychology, University of Georgia
- 2016 **Departmental Teaching Assistantship | USD 2,268**  
Department of Psychology, University of Georgia
- 2016 **Walter Isaac Travel Award | USD 300**  
Department of Psychology, University of Georgia
- 2015-16 **Departmental Teaching Assistantship | USD 18,144**  
Department of Psychology, University of Georgia
- 2015 **Honorary Domestic Travel Assistance | INR 11,000**  
Biopsychology Laboratory, University of Mysore
- 2015 **Foreign Travel Assistance | USD 1,850**  
OVPR, University of Georgia
- 2015 **Walter Isaac Travel Award | USD 300**  
Department of Psychology, University of Georgia
- 2015 **Outstanding Publication Award**  
Department of Psychology, University of Georgia
- 2014-15 **Ph.D. Scholars of Excellence Assistantship | USD 21,000**  
Department of Psychology, University of Georgia
- 2015 **Education Related Travel Grant | INR 40,000**  
Sir Dorabji Tata Trust, India
- 2007-12 **Inspire Fellowship | INR 287,500**  
Department of Science & Technology, India
- 2010 **Summer Research Fellowship | INR 12,000**  
Indian Academy of Sciences, India
- 2010 **Spirit of Invention Award | INR 5,000**  
National Chemical Laboratory, India

# TEACHING EXPERIENCE

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**RESEARCH ANALYSIS IN PSYCHOLOGY** | TEACHING ASSISTANT

August 2018 – December 2018 | University of Georgia

**COGNITIVE NEUROSCIENCE** | INSTRUCTOR OF RECORD

July 2018 | University of Georgia

**RESEARCH ANALYSIS IN PSYCHOLOGY** | TEACHING ASSISTANT

January 2018 – May 2018 | University of Georgia

**ANIMAL COGNITION & PERCEPTION** | GUEST LECTURER

March 2018 | University of Georgia

**SENSATION & PERCEPTION** | GUEST LECTURER

October 2017 | University of Georgia

**RESEARCH DESIGN IN PSYCHOLOGY** | TEACHING ASSISTANT

August 2017 – December 2017 | University of Georgia

**COGNITIVE PSYCHOLOGY** | TEACHING ASSISTANT

Jan 2017 – May 2017 | University of Georgia

**PHYSIOLOGICAL & COMPARATIVE PSYCHOLOGY** | TEACHING ASSISTANT

August 2016 – December 2016 | University of Georgia

**PSYCHOPHARMACOLOGY** | TEACHING ASSISTANT

June 2016 – July 2016 | University of Georgia

**ANIMAL COGNITION** | GUEST LECTURER

January 2016 – May 2016 | University of Georgia

**ELEMENTARY PSYCHOLOGY** | TEACHING ASSISTANT

August 2015 – May 2016 | University of Georgia

**STATISTICS** | GUEST LECTURER

January 2013 – May 2013 | University of Mysore

**EVOLUTION** | GUEST LECTURER

August 2012 – December 2012 | University of Mysore

# UNDERGRADUATE MENTORSHIP

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- 2018 **Pakeeza A. Hafeez**  
Psychology & Biology Major, University of Georgia
- 2018 **Peyton Niebanck**  
Fisheries and Wildlife Major, University of Georgia
- 2018 **Ryan Chen**  
Kinesiology Major, University of Georgia
- 2018 **Sarah Cutts**  
Psychology & Neuroscience Major, University of Georgia
- 2018 **Sophia L. Lambert**  
Psychology & Neuroscience Major, University of Georgia
- 2018 **Terrence R. Mchugh**  
Kinesiology Major, University of Georgia
- 2017-18 **James D. Connors**  
Psychology & Communications Major, University of Georgia  
  
James received **William T. James Award** given to an Outstanding Senior Major in Psychology
- 2017 **Carlos R. Corea**  
Linguistics & Psychology Major, University of Georgia
- 2017 **Lillian A. Stamps**  
Psychology Major, University of Georgia
- 2017 **Tinikki C. Gibbs**  
Psychology Major, University of Georgia
- 2016 **Sophie A. Barton**  
Psychology & Neuroscience Major, University of Georgia
- 2015-16 **Ashley Myers**  
Biology & Psychology Major, University of Georgia
- 2015-16 **Hiba Hafeez**  
Psychology Major, University of Georgia
- 2015-16 **Lindsey K. R. Roles**  
Psychology & Neuroscience Major, University of Georgia
- 2015 **James Y. Hammers**  
Psychology Major, University of Georgia
- 2015 **Leslea G. Motley**  
Psychology Major, University of Georgia
- 2012-15 **Ravindra P. Nettimi**  
Biology Major, Indian Institute of Science Education and Research Pune
- 2012-15 **Nisarg Desai**  
Biology Major, Indian Institute of Science Education and Research Pune



# REFEREES

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**DOROTHY M. FRAGASZY | PROFESSOR**

Psychology, University of Georgia  
doree@uga.edu | 706.338.3859 | 125 Baldwin St, Athens, GA 30602, USA

**KARL M. NEWELL | PROFESSOR**

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kmn1@uga.edu | 814.571.1812 | 110 Carlton St, Athens, GA 30602, USA

**TARKESHWAR SINGH | ASSISTANT PROFESSOR**

Kinesiology, University of Georgia  
sabat@uga.edu | 706.542.4385 | 110 Carlton St, Athens, GA 30602, USA

**DEAN SABATINELLI | ASSOCIATE PROFESSOR**

Psychology, University of Georgia  
sabat@uga.edu | 706.542.3094 | 125 Baldwin St, Athens, GA 30602, USA

**PATRÍCIA IZAR | PROFESSOR**

Experimental Psychology, University of São Paulo  
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**MEWA SINGH | LIFE-LONG DISTINGUISHED PROFESSOR**

Psychology, University of Mysore  
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**SUTIRTH DEY | ASSOCIATE PROFESSOR**

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