

KARIN ELIZABETH GILL, PH.D.



Associate Professor of Behavioral Neuroscience
Centre College
218 Young Hall
600 West Walnut Street
Danville, KY 40422
859-238-6513
karin.gill@centre.edu

EDUCATION

Ph.D. Experimental Psychology (2015)
Behavioral Neuroscience and Psychopharmacology
University of Kentucky
Lexington, KY
Advisor: Chana K. Akins, Ph.D.
Dissertation Committee: Drs. Chana Akins, Susan Barron, Kimberly Nixon (outside examiner), Mark Prendergast, & David Westneat

M.S. Experimental Psychology (2011)
Behavioral Neuroscience and Psychopharmacology
University of Kentucky
Lexington, KY
Advisor: Chana K. Akins, Ph.D.
Thesis Committee: Drs. Chana Akins, Mike Bardo, & Susan Barron

Graduate Certificate (2013)
College Teaching & Learning
University of Kentucky
Lexington, KY

B.S. Psychology (2005)
Minors: Biology, Sociology
University of North Carolina at Charlotte
Charlotte, NC

PROFESSIONAL EXPERIENCE

2022-Present
Associate Professor
Behavioral Neuroscience Program
Centre College

2016-2022
Tenure-Track Assistant Professor
Behavioral Neuroscience Program
Centre College

2015-2016
Visiting Assistant Professor
Behavioral Neuroscience Program
Centre College

2009-2015
Teaching Assistant/Research Assistant
University of Kentucky
Laboratory of Dr. Chana K. Akins
Teaching Assistant for Drs. Andrea Friedrich, Ray Archer, Chana Akins, Hui Chu, and Lynda Sharrett

08/2014 – 12/2014
Adjunct Instructor
Eastern Kentucky University
Department of Psychology

TEACHING EXPERIENCE

Centre College
PSY 110: Introduction to Psychology

F15, S16, F16, F18

PSY 110L: Introduction to Psychology Laboratory	F15, S16, F16, F18, S22
BNS 210: Experimental Design: Behavioral Neuroscience	S17, S18, S19, F19, S20, F20, S21, F21, S22, S23
PSY 295: Physiological Psychology	F15, S16, S17, F17, S18, S19
PSY 305: The Psychology of Learning	F20
PSY 305L: The Psychology of Learning Laboratory	F16, F17, F18, F19, F20
PSY 350/351: Advanced Research Topics	F17, F19, S21, S23
BNS 360: Drugs, Brain, and Behavior	F21, S23
BNS 380: Behavioral Neuroendocrinology	F16, F18, S20, S21, S22

Eastern Kentucky University

PSY 200: Introductory Psychology	F14 (two sections)
----------------------------------	--------------------

University of Kentucky

PSY 100L: Introduction to Psychology Laboratory	F13 (four sections), F14 (two sections)
PSY 215L: Experimental Psychology Laboratory	F10 (two sections), S14 (two sections)
PSY 311: Learning & Cognition	S15
PSY 312: Brain and Behavior	Sum13
PSY 456L: Behavioral Neuroscience Laboratory	F12 (two sections)

PUBLICATIONS (*denotes undergraduate student)

Gill, K.E., *McGarrigle, W.J., *Neel, A.I., *Tonto, D.O., & *Greenleaf, K.L. (2022) *D2 receptor antagonism enhances cocaine-induced behavioral sensitization in female, but not male Japanese quail*. Manuscript accepted with minor revisions to *Behavioural Pharmacology*.

Akins, C.K., Bolin, B.L., & **Gill, K.E.** (2017). Cocaine pre-exposure enhances sexual conditioning and increases resistance to extinction in male Japanese quail. *Learning & Behavior*, 45 (3), 313-322.

Gill, K.E., Reynolds, A.R., Prendergast, M.A., & Akins, C.K. (2016). Female Japanese quail with high levels of estradiol demonstrate cocaine-induced conditioned place preference. *Experimental & Clinical Psychopharmacology*, 24 (3), 185-192.

Gill, K.E., Madison, F.N., & Akins, C.K. (2015). Cocaine-induced sensitization correlates with testosterone in male Japanese quail but not with estradiol in female Japanese quail. *Hormones & Behavior*, 67, 21-27. doi:10.1016/j.yhbeh.2014.11.006

Gill, K.E., Rice, B.A., & Akins, C.K. (2015). Cocaine induces state-dependent learning of sexual conditioning in male Japanese quail. *Physiology & Behavior*, 138, 150-153. doi:10.1016/j.physbeh.2014.10.020

Bolin, B.L., *Cornett, H.L., *Barnes, A.F., **Gill, K.E.**, & Akins, C.K. (2012). Nicotine induces a conditioned place preference in male Japanese quail (*Coturnix japonica*). *Physiology & Behavior*, 107 (3), 364-367. doi:10.1016/j.physbeh.2012.08.005

INVITED TALKS

Gill, K.E. (April, 2021) *It's Not Rocket Science: Breaking Down Complex Material through Memorable Activities*. Talk presented in the Teaching in the Behavioral Sciences with Activities and Laboratory Experiments Symposium at the Midwestern Psychological Association annual convention, Chicago, IL, virtual presentation.

STUDENT RESEARCH MENTORSHIP/TRAINING

Centre College

2021-Present	Molly Samonds, 2024 undeclared
2021-Present	Emma Ridener, 2023 BNS Major
2021-Present	Lauren Chatfield, 2023 BNS Major
2021-2022	Alexandria Coffin, 2022 BNS Major
2021-2022	Elsie Mead, 2022 BNS Major
2020-2021	Kylie Cochran, 2021 BNS Major
2020-2021	Katy Haering, 2021 BNS Major
2019-2021	Breanna Roberts, 2021 BNS Major
2019-2020	Zena Maddux, 2020 BNS Major
2019-2020	Emily Stone, 2020 BNS Major
2019	Neha Rao, 2019 BNS major
2018-2021	Anna “Izzy” Neel, 2021 BNS Major
2018-2020	Kat Greenleaf, 2020 BNS major
2018-2019	Derrick Osei Wiafe Tonto, 2019 BNS major
2018-2019	Claire Samuels, 2019 PSY major
2017-2019	Lillie Dickman, 2019 BNS major
2017-2019	Dayera Vance, 2019 BNS major
2017-2018	Shain Mays, 2018 BNS major
2017-2018	Elijah Rue, 2019 BNS major
2016-2018	Yanisa Robbins, 2018 BNS major
2016-2018	Hudson Smith, 2018 PSY major
2016-2018	William McGarrigle, 2018 BNS major
2016-2018	Caleb Scroggum, 2018 BNS major
2015-2016	Kayla Morris, 2016 BNS major, co-mentored with Dr. Brian Cusato

University of Kentucky

2014-2015	Lucas Nyerges, 2017 PSY major
2013-2015	Emily Edmiston, 2015 PSY & Neuroscience major
2012-2014	Joshua Shouse, 2014 PSY & Neuroscience major
2012-2013	Charlie Deese, 2014 PSY major
2012-2013	Aaron Barr, 2014 PSY major
2010-2011	Patrick Young, 2011 PSY major
2009-2010	David Arndt, 2010 PSY major

COLLABORATIVE WORK WITH CENTRE STUDENTS

Grants

Summer 2021	FDC Faculty Research, Lauren Chatfield (2023, BNS major) and Elsie Mead (2022, BNS major) Project titled, <i>The effect of estradiol and testosterone on cocaine-induced behavioral sensitization in male Japanese quail.</i>
Summer 2018	FDC Faculty Research, Kat Greenleaf (2020, BNS major) and Anna “Izzy” Neel (2021 undeclared) Kentucky West Virginia Alliance for Minority Participation LSAMP, Derrick Osei Wiafe Tonto (2019, BNS major) Project titled, <i>Hormonal control of alcohol-induced aggression in male Japanese quail.</i>

Summer 2017 FDC Faculty Research, Yanisa Robbins (2018 BNS major) and Hudson Smith (2018 PSY major)
Kentucky West Virginia Alliance for Minority Participation LSAMP, Dayera Vance (2019 BNS major)
Project titled, *Cocaine-induced locomotor activity and conditioned place preference in male and female Japanese quail.*

Internships

Spring 2022 Lauren Chatfield, Title IX intern at the Centre College Title IX Office
CentreTerm 2022 Will Leonberger, “Jail to Job” intern at the Shepard’s House
CentreTerm 2022 Pranay Mupparaju, TMS Therapy Intern at the Nashville Center for Hope and Healing
Fall 2021 Lily Andersen, Speech & Language Pathology Intern at Wilderness Trace
Spring 2021 Jill Nofziger, Virtual Learning & Memory Intern at the University of Dublin
Spring 2021 Lily Murphy, Substance Abuse Intern at New Vista
CentreTerm 2021 Kylie Cochran, Orthopedics Practice Intern at Orthopaedics Associates of Kentuckiana
CentreTerm 2021 Emily Doyle, Allergy Clinic Intern at Ellis & Badenhausen
CentreTerm 2021 Brooks Owen, TMS Therapy Intern at the Nashville Center for Hope and Healing
Summer 2020 Lauren Robinson, Internal & Nutritional Medicine Intern at Remedy Wellness
CentreTerm 2020 Kylie Cochran, Hospital Administration Intern at Ephraim McDowell Medical Center
CentreTerm 2020 Jordan Sigal, Athletic Training Intern at Centre College
CentreTerm 2020 Caroline Stallings, Speech-Language Pathology Intern at Kentucky School for the Deaf
Fall 2019 Anna “Izzy” Neel, Drug/Alcohol Research Intern at University of Kentucky
Spring 2019 Lillie Dickman, Physical Therapy Intern at Danville Orthopedics and Sports Medicine
CentreTerm 2019 Hannah Bandura, CASA Intern at CASA of the Bluegrass
CentreTerm 2019 Lauren Robinson, Foundation Intern at Trilogy Health Services
CentreTerm 2018 Sierra Panting, Medical Intern at Ephraim McDowell
Summer 2018 Natalie Miskofsky-Forester, Law Firm Intern at Miller, Griffin, and Marks

Regional Presentations

Chatfield, L., Mead, E., & **Gill, K.E.** (April 2022). *Effects of estradiol on cocaine-induced locomotor activity in male Japanese quail.* Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL.

Neel, A.I., Roberts, B., Cochran, K., Haering, K., & **Gill, K.E.** (April 2021). *The role of the 5-HT_{2A} receptor in cocaine-induced locomotor sensitization in Japanese Quail.* Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL, virtual event.

Neel, A.I., Roberts, B., Maddux, Z., Stone, E., & **Gill, K.E.** (April 2021). *Hormonal control of alcohol-induced aggression in male Japanese Quail.* Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL, virtual event.

Neel, A.I., Greenleaf, K., Tonto, D., & **Gill, K.E.** (November 2020) *D2 Receptor Antagonism Affects Cocaine-Induced Behavior Sensitization in Japanese Quail.* Oral presentation at the Kentucky Academy of Science (KAS) annual meeting, virtual event. (*1st place student competition winner – Physiology/Biochemistry Division*)

Neel, A.I., Greenleaf, K., & **Gill, K.E.** (April 2020) *D2 Receptor Antagonism Affects Cocaine-Induced Behavioral Sensitization in Japanese Quail.* Poster accepted for the Midwestern Psychological Association annual convention, Chicago, IL. **Cancelled due to COVID-19**

Maddux, Z., Stone, E., Roberts, B. & Gill, K.E. (April 2020) *Hormonal Control of Alcohol-Induced Aggression in Male Japanese Quail*. Poster accepted for the Psi Chi section at the Midwestern Psychological Association annual convention, Chicago, IL. **Cancelled due to COVID-19**

Neel, A.I., Greenleaf, K., Tonto, D., & Gill, K.E. (April 2019) *D2 Receptor Antagonism on Cocaine-Induced Locomotion in Japanese Quail*. Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL.

Robbins, Y., Smith, H., Vance, D., & Gill, K.E. (April 2018) *The Effects of Gonadal Sex Hormones on Cocaine Reward in Female Japanese quail*. Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL.

Dickman, L., McGarrigle, W., Scrogam, C., & Gill, K.E. (April 2018) *Cocaine-Induced Locomotor Activity and Sensitization in Japanese quail*. Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL.

RICE Presentations

Coffin, A. & Ridener, E. (April 2022). *Examining the Role of Estrogen (E2) and Cocaine in Conditioned Place Preference in Japanese Quail*. Poster presented at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Cochran, K. & Haering, K. (April 2021) *Examining the Role of Risperidone in Dopaminergic and Serotonergic Mechanisms Underlying Cocaine-Induced Sensitization in Japanese quail*. Poster presented at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Neel, A.I. & Roberts, B. (April 2021) *Hormonal Control of Alcohol-Induced Aggression in Male Japanese quail*. Poster presented at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Dickman, L., Samuels, C., & Rao N. (April 2019) *The Role of Epinephrine in Enhancing Rewarding Behavior of Cocaine in Japanese quail*. Oral presentation at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Vance, D., Neel, A.I., Tonto, D.O. (April 2019) *The Effects of Gonadal Sex Hormones on Cocaine Reward in Female Japanese quail*. Poster presented at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Robbins, Y. & Smith, H. (April 2017). *The Effects of Estradiol and Progesterone on the Rewarding Properties of Cocaine in Female Japanese quail*. Poster presented at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Scrogam, C. & McGarrigle, W. (April 2017) *Cocaine-induced locomotor activity, sensitization, and dopaminergic activity in Japanese quail*. Oral presentation at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

Morris, K. (April 2016). *Effect of Sex in Nicotine Reinforcement in Japanese quail (Coturnix japonica)*. Poster presented at the annual RICE (Research-Internships-Creative Endeavors) Symposium, Centre College, Danville, KY.

ADDITIONAL PRESENTATIONS (*denotes undergraduate student)

Eaton, S.E., Gill, K.E., & Akins, C.K. (June 2017) *Estradiol Mediates Cocaine-Induced Locomotion in Japanese quail*. Poster presented at the annual Society for Behavioral Neuroendocrinology convention, Long Beach, CA.

Gill, K.E., *Edmiston E.A., & Akins, C.K. (March 2015). *Cocaine-induced Locomotor Activity and Conditioned Place Preference in Female Japanese Quail*. Poster presented at the annual Bluegrass Society for Neuroscience Spring Neuroscience Day, Lexington, KY.

*Edmiston, E., Gill, K.E., & Akins, C.K. (April 2014). *Sex Differences in Cocaine-Induced Sensitization in Japanese Quail*. Poster presented at the National Conference on Undergraduate Research convention, Lexington, KY.

Gill, K.E. & Akins, C.K. (June 2013). *Effects of Photocastration in Cocaine Sensitization between Male and Female Japanese Quail (Coturnix japonica)*. Poster presented at the annual Society for Behavioral Neuroendocrinology convention, Atlanta, GA.

Gill, K.E. & Akins, C.K. (May 2013). *Sex Differences in Behavioral Sensitization to Cocaine in Japanese quail*. Poster presented at the Midwestern Psychological Association annual convention, Chicago, IL.

Gill, K.E. & Akins, C.K. (April 2013). *Sex Differences in the Locomotor-Enhancing Effects of Cocaine in Japanese quail*. Poster presented at the annual Bluegrass Society for Neuroscience Spring Neuroscience Day, Lexington, KY.

Gill, K.E., Bolin, B.L., & Akins, C.K. (August 2012). *Sex Differences in Behavioral Sensitization to Cocaine in Japanese quail*. Poster presented at the American Psychological Association annual convention, Orlando, FL.

Gill, K.E., Bolin, B.L., & Akins, C.K. (November 2011). *Sex Differences in Behavioral Sensitization to Cocaine in Japanese quail*. Poster presented at the Society for Neuroscience annual meeting, Washington, D.C.

Gill, K.E., Bolin, B.L., & Akins, C.K. (March 2011). *Sex Differences in Behavioral Sensitization to Cocaine in Japanese quail*. Poster presented at the annual Bluegrass Society for Neuroscience Spring Neuroscience Day, Lexington, KY.

COMMITTEE SERVICE FOR CENTRE COLLEGE

Elected Committee Member

College Council Division III Representative	2016-2019
Faculty Development Division III Representative	2019-2020

Appointed Committee Chair

Undergraduate Research, Co-Chair with Dr. Karoline Manny	2021-Present
Undergraduate Research, Co-Chair with Dr. Eva Cadavid	2019-2021
BNS 2-yr Visiting Search, hired Dr. Genevieve Bell	2019-2020
Undergraduate Research, Co-Chair with Dr. Amy Frederick	2018-2019

Appointed Committee Member

Institutional Animal Care and Use	2020 (Spring), 2018 (Spring)
Division III Safety	2020-2021, 2017-2019
Undergraduate Research	2017-2018
PSY Visiting Search, hired Dr. Drew Morris	2018 (Spring)
Enrollment Management	2016-2017

OTHER PROFESSIONAL SERVICE

Centre College

UGR Convocation Organizer: Alumni Panel on the impact of UGR	April 2022
Convocation Organizer: Drug Talk and Narcan Training with Amy Anness	March 2022
Division III Summer Symposium Co-Organizer	Summer 2021, 2019
Convocation/Faculty Workshop Co-Organizer: UGR with Dr. Jenny Shanahan	April 2021
CCPD Emerging Professionals Series, Research Internships Panelist	Sept. 2021, 2020, 2019, 2018
Organizer for UGR Faculty Luncheon Conversation	Nov. 2019
Interviewer for Lincoln Scholars Finalists	April 2019
BNS/PSY Program Flyers	Sept. 2018, Sept. 2017
SPARK Diversity Fishbowl Panelist	May 2018
RICE Oral Session 2D Moderator	Apr. 2017
Convocation Organizer: Opiate Epidemic with Dr. Hiram Polk	Oct. 2017
Open House Faculty/Staff Reception, BNS/PSY representative	May 2018, March 2017
Meet the BNS/PSY Faculty Night	Nov. 2018, Mar. 2018, Mar. 2017, Mar. 2016

University of Kentucky

Graduate Student Handbook Development Committee	Fall 2014
Teaching Introductory Psychology Development Group	Fall 2014
Brownbag Coordinator	2010-2011

AWARDS, HONORS, & PROFESSIONAL RECOGNITION

2021	Centre College FDC Faculty Research Grant (Elsie Mead, Lauren Chatfield)
2021	Honor Walk Talent Recipient (Kylie Cochran, Anna "Izzy" Neel, Lauren Robinson)
2020	Kentucky Academy of Science Meeting – November 2020 <i>Izzy Neel - Student Competition 1st place winner in the Physiology/Biochemistry Division</i>
2019	Centre College FDC Faculty Research Grant
2019	Honor Walk Talent Recipient (Dayera Vance)
2018	Kresge Grant for new lab equipment (\$11,132)
2018	Honor Walk Talent Recipient (Shain Mays, Yanisa Robbins, Hudson Smith)
2018	Centre College FDC Faculty Research Grant (Kat Greenleaf, Anna "Izzy" Neel)
2018	Kentucky West Virginia Alliance for Minority Participation LSAMP Grant Program (Derrick Tonto)
2017	Centre College FDC Faculty Research Grant (Yanisa Robbins, Hudson Smith)
2017	Kentucky West Virginia Alliance for Minority Participation LSAMP Grant Program (Dayera Vance)
2013	Research Challenge Trust Fellowship (RCTF)
2013	Research Challenge Trust Fellowship Travel Award (RCTF)
2011	Research Challenge Trust Fellowship Travel Award (RCTF)
2004	Best Research Project, <i>Gender Differences and Acceptable Behavior in Romantic Relationships among College Students.</i>

HONOR SOCIETIES

2016 (inducted)	Nu Rho Psi
-----------------	------------

SCIENTIFIC SOCIETIES

2021-Present	KY Branch of the American Association of Laboratory Animal Science
2019-Present	Faculty for Undergraduate Neuroscience (FUN)
2017–Present	Organization for the Study of Sex Differences (OSSD)
2016–Present	Kentucky Academy of Science (KAS)
2013–Present	Society for Behavioral Neuroendocrinology (SBN)
2013–Present	Midwestern Psychological Association (MPA)
2014–2015	American Psychological Association – Div 28 (APA)
2009–2015	Bluegrass Chapter Society for Neuroscience (BGSFN)

ADDITIONAL COMMUNITY SERVICE

2016-2020	Fundraiser Committee Member – Versailles Montessori School
2018-2020	Woodford County Girl Scout Troop 5805 Parent Volunteer
2004	Winston-Salem/Forsyth County Humane Society Volunteer