

HEB SENIOR UNDERGRADUATE THESES: 2017-2021

These titles, and others from 2009-2016, are available from the HEB concentration advisors.
Most theses from 2008 and earlier are searchable in HOLLIS

HEB CLASS OF 2021

STUDENT	TITLE	ADVISOR
Esme Benson	<i>Primate Ilithology: the Comparative Study of Birth and Parturitional Behaviors</i>	Dr. Christine Webb
Lily Gao	<i>The Deep Breath before the Plunge: Thoracic Adaptations for Increased Ventilation in Swimmers during Physical Activity</i>	Dr. Dan Lieberman
Benjamin Ho	<i>Sex, Bugs, and Dimorphism's Role: Detecting Signals of Biological Sex in the Primate Gut Microbiome</i>	Dr. Rachel Carmody
Kelsey Hoskin	<i>The Enigma of the Amygdala: A Volumetric Analysis of the Basolateral Amygdala in Domesticated Silver Foxes</i>	Dr. Erin Hecht
Stacy Jo	<i>Voluntary pitch control: An experimental study of pitch matching in domestic dog howling</i>	Dr. Erin Hecht
Vismaya Kharkar	<i>Double-Jointed: A Dual Approach to Studying Developmental Gene Expression Differences Between Human and Mouse Limb Joints</i>	Dr. Terry Capellini
Vivian Lee	<i>Beyond gut feelings: Empirically discriminating the effects of fat versus sugar on the murine gut microbiota.</i>	Dr. Rachel Carmody
Chamberlain Mathis	<i>On Looks Alone: Women Make Broad Judgements of Other Women on the Basis of Their Body</i>	Dr. Max Krasnow
Christine Parkent	<i>The Hunt to Gather Data: A Systematic Review of Variation Among Hunter-Gatherer Diets</i>	Dr. Dan Lieberman
Olivia Scott	<i>Stress and Cognition: The Potential Impact of Perceived Stress on Cognitive Performance Following Intimate Partner Violence in Women</i>	Dr. Eve Valera
Amber Shaw	<i>Moms Stick Together: How the Death of an Infant Affects Female Social Relationships in a Group of Wild Bonobos (<i>Pan paniscus</i>)</i>	Dr. Martin Surbeck
Anna Tavormina	<i>A walk on the w[IL]d side: Interleukin 6 responds to long-duration walking</i>	Dr. Dan Lieberman

HEB CLASS OF 2020

STUDENT	TITLE	ADVISOR
Baccouche, Basil	<i>Giraffe Paradox: Investigating the Absence of Hypertrophy-Related Exercise Impairment in the Modern Giraffe as a Natural Animal Model for Resistance to Diastolic Heart Failure in Humans</i>	Barbara Natterson-Horowitz
Diggins, Caroline	<i>A Phylogenetic Gnotobiotic Mouse Model: A Comparative Analysis of the Functional Uniqueness of the Human Microbiome</i>	Rachel Carmody
Farber, Matt	<i>Studying the Effects of Voluntary Exercise in a Murine Model of Colitis and the Role of Intestinal Alkaline Phosphatase</i>	Richard Hodin (MGH)
Kaufman, Lourdes	<i>From Pleistocene Diets to Anti-Parkinsonian Drugs: Understanding the Role of the Human Enteric Microbiome in the Metabolism of Ingested L-dopa</i>	Emily Balskus (FAS Dept. of CCB)
Kelly, Madeleine	<i>Environmental Change Related to the Emergence of the Genus Homo in the Turkana Basin, 3-44-1.30 Ma</i>	Neil Roach
Meeks, Gillian	<i>Factors Influencing Ovarian Suppression in Female Distance Runners</i>	Susan Lipson
Ojeaburu, Sandra	<i>Despite All Odds: Biological Foundations of Social Support Networks for Black Mothers in Mississippi</i>	Youssef Carter (Anthropology)
Onuoha, Chioma	<i>Evolutionary Adaptivity of Gestational Hypertension in Cases of Gestational Diabetes Mellitus</i>	Camille Powe (Massachusetts General Hospital)
Ribordy, Mathilde	<i>The Use of Aquatic Resources in Human Evolution: Galj17, a Late Pleistocene Locality at Koobi Fora, Kenya</i>	Neil Roach & Amy Clark (Anthropology)
Sevilla, Teddy	<i>Reciprocal Grooming in Olive Baboons</i>	Isaac Schamberg

HEB CLASS OF 2019

STUDENT	TITLE	ADVISOR
Benson, Sophie	<i>Water-Dipping Tool Use in Comoé Chimpanzees: Another Female-Biased Tool Behavior?</i>	Richard Wrangham
Bolze, Andrew	<i>The Effects of Endurance Running on the Gut Microbiota</i>	Rachel Carmody
Eliason, Sonja	<i>Bring Out Your Dead: An Investigation of the Co-evolution of H. sapiens and Y. pestis</i>	Bridget Alex
Gillinov, Stephen	<i>Effect of Footwear on Leg and Longitudinal Arch Stiffness during Running</i>	Nick Holowka
Hansen, Oliver	<i>The effects of toe springs in footwear on walking biomechanics</i>	Nick Holowka
Katz, Danielle	<i>The Phylogeny of Atrial Fibrillation (AF): The Power of Comparative Arrhythmology to Generate Novel Hypotheses on the Origin of Vulnerability to AF</i>	Barbara Natterson-Horowitz
Landau, Rebecca	<i>Breaking it Down: Investigating the Effects of Physical Activity and Loading Substrate on the Development of Knee Osteoarthritis</i>	Ian Wallace
Litwin, Edward	<i>The Social Side of Evolution Understanding</i>	Bridget Alex
Moore, Brandi	<i>Exploring the effect of wine and coffee polyphenols on the gut microbiota</i>	Rachel Carmody
Riew, Grant	<i>Obesity and the Pathogenesis of Knee Osteoarthritis: Assessing the Relative Influence of Joint Stress and Visceral Adiposity</i>	Ian Wallace
Rushin, Claire	<i>The Long-term Effects of Bariatric Surgery on Bone: Examining Energy Allocation as Evolutionary Adaptation and Physiological Constraint</i>	Elaine Yu(Massachusetts General Hospital)
Young, Niki	<i>Hormones and Online Dating: Endocrine Response to Modern Mating Interactions</i>	Max Krasnow(Psychology)

HEB CLASS OF 2018

STUDENT	TITLE	ADVISOR
Monilola Awolesi	<i>Tactile Communication during Cooperation: Exploring the Effect of Sex on Dyadic Bond Formation and Maintenance</i>	Bridget Alex
Mia Charifson	<i>Learning Transfer in Adolescence: The Effects of Previous Learning On Later Cognitive Control</i>	Leah Somerville (Psychology)
Tess Cushing	<i>Stick-carrying in Juvenile Chimpanzees: Imitation or Pretense?</i>	Richard Wrangham & Paul Harris
Saige Daniel	<i>Characterizing the Pubertal Transition in Young Girls: The Dynamics of Growth, Energy Balance, and Insulin Relative to Menarche</i>	Susan Lipson
Cara Jacobson	<i>The Function of Male Greetings in a Kibale Olive Baboon Troop</i>	Vivek Venkataraman
Cookie Koch	<i>Effect of Shoe Type on Foot Development and Function in Children</i>	Daniel Lieberman
Elena McCormick	<i>Reconstructing Pleistocene Seasonality in the Cradle of Humankind: An analysis of stable oxygen isotopes in fossil primate and ungulate tooth enamel</i>	Noreen Tuross
Alexander Richards	<i>Adjustability of the Stiffness of the Medial Longitudinal Arch of the Human Foot</i>	Nick Holowka
Laura Schell	<i>Effect of traditional and industrial food preservation agents on the gut microbiota</i>	Rachel Carmody
Cameron Shaw	<i>Functional Testing of Height Variants in Articular Chondrocytes</i>	Terry Capellini
Elianna Shwayder	<i>When Hairy Met Sally: Male Motivations in Heterosexual Friendships Among Forest-Dwelling Olive Baboons</i>	Vivek Venkataraman
Emily Tran	<i>Glossopharyngeal Innervations of Novel Taste Cells on the Circumvallate Papillae of the Tongue</i>	Stephen Liberles (Harvard Medical School)
Siddharth Yarlagadda	<i>When Evolution Hurts: Functional Testing of Candidate Variants Associated with Increased Susceptibility to Osteoarthritis</i>	Terry Capellini

HEB CLASS OF 2017

STUDENT	TITLE	ADVISOR
Lindsey Hagberg	<i>Behavioral Correlates of Aging in Male Chimpanzees</i>	Zarin Machanda
Manizha Kholmatov	<i>The Observer Effect: How Looking at Costs and Benefits Impacts Cooperative Behavior</i>	Erez Yoeli(Program for Evolutionary Dynamics)
Cecilia Laguarda	<i>Mean Girls: An Analysis of Female-Female Relationships in the Kanyawara Olive Baboon Troop</i>	Zarin Machanda
Hannah Leverson	<i>Self-Deprecatory Humor As a Costly Signal of Status</i>	Bethany Burum (Psychology)
Delfina MartinezPandiani	<i>Reconciliation in Homo sapiens: Behavioral Perspectives on the Human Post-Conflict Period</i>	Joyce Benenson & Richard Wrangham
Shivangi Parmar	<i>An Analysis of Non-Kin Male-Female Relationship Dynamics In the Kibale Olive Baboon Troop</i>	Zarin Machanda
Hailey Reneau	<i>The Cost of Service: Sex Differences in the Effects of Social Support on PTSD in U.S. Veterans</i>	Carole Hooven
Andrew Roney	<i>The Effects of Footwear on Knee Moments: Footwear Causes Increased Peak Knee Adduction Moments Associated with Knee Osteoarthritis</i>	Daniel Lieberman & Nick Holowka
Jamie Tanzer	<i>The Role of Laundry Detergent-Induced Damage to the Skin Barrier in the Development of Food Allergy</i>	Heather Shattuck-Heidorn (ME State Refugee Health Coordinator) & Michiko Oyoshi (Harvard Medical School)
Nazow Tarakai	<i>Negating Kinship: Understanding Taliban Recruitment and Support through Pastoralist Subsistence Strategy</i>	Bridget Alex& Richard Wrangham
Emily Venable	<i>Nutritional Contribution, Sexual Dimorphism, and Biological Implications of Rotting Wood Consumption by Wild Chimpanzees in Kibale National Park</i>	Richard Wrangham
Hunter York	<i>Ethnographic and Perceptual Evidence for an Evolved Function of Music as a Coalition SignalingSystem</i>	Max Krasnow(Psychology)