



University Honors Program Grants

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2021-22

Ally Abel *Faculty mentor: Roxanne Ziman - AVC/Biomedical* -- Project name: 3D Models as a Tool for Learning Dogfish Shark Anatomy: An Analysis of Student Satisfaction

Ava Depping *Faculty mentor: Rachel Eike – AESHM* -Project name: Design and Reliability of Embroidered Electrodes

Brandon Gallagher *Faculty mentor: Angie Brellenthin – Kinesiology* -- Project name: The Effects of Strength Training on the Endocannabinoid System

Julianna Hernandez *Faculty mentor: Amy Toth – EEOB* -- Project name: How Does Octopamine Affect Aggression of *Polistes metricus* Interactions?

Jackson Komp *Faculty mentor: Elizabeth McNeill – FSHN* - Project name: Effects of dme-miR-6-3p on the Development and Aging of Heart Tissue in *Drosophila melanogaster*

Jace Leininger *Faculty mentor: Spyridoula Vazou – Kinesiology* - Project name: Childhood Experiences and Physical Activity During Adulthood

Caleb Skow *Faculty mentor: Leonor Leandro - Plant Pathology* - Project name: Project Antifungal Properties of Biochar as a Soybean Substrate

Sara Smiley *Faculty mentor: Nancy Thompson - Art VC* - Project name: Children's Book

Braden Westby *Faculty mentor: Richard Stone - IMSE / ME* - Project name: Construction of Fire-Safe System for Bioelectric Control Methodology

2020-21

Jacob Gasper - *Faculty mentor: Shelby Doyle – Architecture* - Project name: Architectural Clay Formwork

Dhaval Ghone - *Faculty mentor: Eric Henderson - Genetics, Development, and Cell Biology* - Project name: Creating and Testing of Cas9 Delivering DNA Origami Nanosystem

IOWA STATE UNIVERSITY

Honors Program

Hannah Gorton - *Faculty mentor: Sekar Raju – Marketing* - Project name: Satisfaction with Major Selection

Claire Jager - *Faculty mentor: Jason Gillette – Kinesiology* - Project name: Effects of Response Time on ACL Injury Risk Factors during Single-Leg Hopping in Post-ACL Reconstruction in Individuals

Maria Lea - *Faculty mentor: Carly Manz – Genetics, Development, and Cell Biology* - Project name: College Students and Flu Vaccinations

Stefan Peng - *Faculty mentor: Don Sakaguchi – Genetics, Development, and Cell Biology* - Project name: Differentiation of Neural Stem Cells through Electric Field Stimulation

David Reynolds - *Faculty mentor: Raquel Espin Palazon - Genetics, Development, and Cell Biology* - Project name: Development of a Microfluidic Platform for Embryonic Zebrafish Confocal Microscopy Imaging

Nathan Robillard - *Faculty mentor: Marian Kohut – Kinesiology* - Project name: Monocyte Inflammatory Pathways in Depression

Jacob Schmieder - *Faculty mentor: Laurie Smith Law - Honors Program* - Project name: Sound Sensitive Lights for Instruments

Chirayu Shukla - *Faculty mentor: Elizabeth Stegemoller – Kinesiology* - Project name: The Storm

Karley Spahn - *Faculty mentor: Jason Gillette – Kinesiology* - Project name: Effects of Athletic Tape on the Ankle Joint and Ground Reaction Forces During Jump-Landing Task

Brian Todey - *Faculty mentor: Greg Curtzwiler – Food Science & Human Nutrition* - Project name: Determining the Viability of Paper and Non-Synthetic Wax for Food Packaging

Alexander VandeLoo - *Faculty mentor: Kristin Rozier - Aerospace Engineering* - Project name: Robotic Development

Jack Wilgenbusch - *Faculty mentor: Ashley Goreczny – Marketing* - Project name: Understanding SEO Strategy: Analyzing Paid Versus Organic Keyword Searches

2019-20

Stephanie Bias (Apparel, Events, and Hospitality Management) - *Faculty mentor: Chin-Hsun Tsai* - Project name: Defining and Analyzing Attendee Motivation Factors for Vegan Festivals

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Claire Birchmier (Food Science & Human Nutrition) - *Faculty mentor: Kevin Schalinske* - Project name: Effects of Egg Supplementation on Attenuating Disease States of Polycystic Ovary Syndrome

Grace Kline (Ecology, Evolution and Organismal Biology) - *Faculty mentor: Fredric Janzen* - Project name: A Comparative Analysis of Genetic Convergence Underlying Similar Patterns of TSD

Laura Kurr (Biochemistry) - *Faculty mentor: Jonathan Mochel* - Project name: A 3D In-Vitro Model of Canine Inflammatory Bowel Disease for Accelerating Drug Safety and Efficacy Testing

Hannah Sams (Marketing) - *Faculty mentor: Daniel Russel* - *Human Development and Family Studies* - Project name: Analyzing Loneliness Causes and Consequences in College Freshmen

Kenna Short (Mechanical Engineering) - *Faculty mentor: Jim Heise* - Project name: Interactive Console Design for a Mars Rover Exhibit at the Science Center of Iowa

Ryan Thompson (Mechanical Engineering) - *Faculty mentor: James Michael* - Project name: Electric-field Heating of Femtosecond Laser Ionization at High Pressure

Sam Vande Loo (Mechanical Engineering) - *Faculty mentor: Eulanda Sanders* - Cyber Sketch: Blurring the Lines between Physical and Digital Drawing Technologies

Hope Yates (Kinesiology and Health) - *Faculty mentor: Jason Gillette* - Project name: The Effects of KT Tape on Lower Extremity Injury Risk Factors

Evan Wieczorek (Aerospace Engineering) - *Faculty mentor: Tomas Gonzalez* - Project name: Hydraulic and Electronic Actuator System Development for ISU's BuonyanCY Laboratory

2018-19

David Bis (Software Engineering) - *Faculty mentor: Ellen McKinney* - Project name: Musical Instrument Performance Reactive Costume

Scarlett Eagle (Genetics) - *Faculty mentor: Elizabeth McNeill* - Project name: Mutagenesis of XXT5 and Cloning of XLT2 for Analysis of Soluble Protein Purification in Preparation for X-Ray

Jacqueline Ehrlich (Biochemistry) - *Faculty mentor: Olga Zabolina* - Project name: Examining the functional role of microRNAs implicated in Hypermobility Ehlers-Danlos Syndrome in maintaining connective tissue morphology

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Bryn Myers (Genetics and Spanish) - *Faculty mentor: Marna Yandeau-Nelson* - Project name: Production of customized bi-functional fatty acids in *Bacillus subtilis* by incorporation of homologous thioesterase and keto-acyl synthase elements

Laura Pesquera Colom (Biology) - *Faculty mentor: Donald Sakaguchi* - Project name: Recovery of Adult Neural Progenitor Cells from Alginate Hydrogels

Zoe Pritchard (Biology and Environmental Studies) - *Faculty mentor: Matt O'Neal* - Project name: Effects of honey bee colony presence on bumble bees

Marissa Roghair (Genetics and Microbiology) - *Faculty mentor: Donald Sakaguchi* - Project name: Investigation of cell-seeded biomaterial scaffolds as a novel cell transplantation platform using zebrafish as a model system

Shakira Stowers (Animal Ecology) - *Faculty mentor: Tim Stewart* - Project name: A Wildlife Guide to Iowa State's Campus

Colin Welk (Environmental Science) - *Faculty mentor: Laura Merrick* - Project name: Source characterization of *E. coli* in an urban-rural watershed

2017-18

Martin Asama (Chemical Engineering) - *Faculty mentor: Dr. Loveland* - Project name: Coaxial Extrusion of Coated Frozen Desserts

Kaitlin Brake (Graphic Design and Advertising) - *Faculty mentor: Carrol Fabor* - Project name: 60 Seconds In

Ian Dillon (Architecture) - *Faculty mentor: Shelby Doyle* - Project name: Organ-O Chair

Matthew Swift (Materials Engineering and Mathematics) - *Faculty mentor: Michael Bartlett* - Project name: Tuneable, Reusable Soft Adhesives

Paul Veach (BPMI) - *Faculty mentor: Etsuro Uemura* - Project name: Testing the effectiveness of an interactive 3D dpg brain application in the veterinary neuroanatomy classroom

Justin Wilder (Kinesiology and Health - Pre Physical Therapy) - *Faculty mentor: Jason Gillette* - Project name: Effectiveness of Motorcycle Boots on Ankle Stability

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Taylor Young (Kinesiology and Health) - *Faculty mentor: Jason Gillette* - Project name: Effects of Loaded Squat Stance on Knee Kinematics and Kinetics

2016-17

Emma Baumann (Athletic Training) - *Faculty mentor: Jason Gillette* - Project name: Taping Effects on Dynamic Balance

Emily Hoffman (Interior Design) - *Faculty mentor: Lee Cagley* - Project name: Children's Book

Sarah Leichty (Environmental Science and Agronomy) - *Faculty mentor: Lee Burras* - Project name: Evaluating the Pacific Coastal Region of Southern Guatemala for Tillage Effects on Soil Characteristics

Lauren Mallot (English) - *Faculty mentor: Brianna Burke* - Project name: The Green my Caffeine Initiative

Valentina Pita (Nutritional Science) - *Faculty mentor: Auriel Willette* - Project name: Influence of SIRT1 on hippocampal dendrites

Mala Sharma (Biology) - *Faculty mentor: Norman Ellinwood* - Project name: Causative Mutation of Hypothyroidism in Feline Colony

Sarah Siegel (Kinesiology and Health - Pre Physical Therapy) - *Faculty mentor: Tim Derrick* - Project name: Patellofemoral Tracking Resulting from Decreases Activation of the Vastus Medialis Muscle

Kaitlyn Wilkie (Kinesiology) - *Faculty mentor: Jason Gillette* - Project name: Jump landing measures effects on ACL injury risk

2015-16

Samantha Creeger (Industrial Design) - *Faculty mentor: Betsy Barnhart* - Project name: Redesigning Furniture in Outdoor Public Spaces

Christopher Isely (Chemical Engineering) - *Faculty mentor: Kaitlin Bratlie* - Project name: pNIPAm particles for protein delivery to tumor-associated macrophages

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Honors Program

Catherine Mullen (Biology) - *Faculty mentor: Matthew Ellinwood* - Project name: Finding a large-animal model for retinitis pigmentosa through EYS mutation screening in Chihuahuas

Heather Murphy (Mechanical Engineering) - *Faculty mentor: Simon Laflamme* - Project name: 3-D Printing to Advance Structural Systems

Joe Webb (Nutritional Science) - *Faculty mentor: Auriel Willette* - Project name: Genes, Insulin Resistance, & Brain Metabolism Influencing Onset of Alzheimer's Disease

2014-15

Morgan Bobb (Genetics and Global Resource Systems) - *Faculty mentor: Donald Sakaguchi* - Project name: Immunohistochemical Analysis of Sciatic Nerve Tissue in a Poly-Lactic Acid Nerve Guidance Conduit

Frances Hunter (Animal Ecology and Biology) - *Faculty mentor: Amy Toth* - Project name: The Effects of Nutrients and Vibration on the Development of Dominance Hierarchies in *Polistes fuscatus*

Andrea Joiner (Architecture) - *Faculty mentor: Samantha Krukowski* - Project name: Immunohistochemical Analysis of Sciatic Nerve Tissue in a Poly-Lactic Acid Nerve Guidance Conduit

Ashley Moyna (Culinary Food Science) - *Faculty mentor: Ruth Litchfield* - Project name: Gluten-Free Myths, Truths & Baked Goods: A Training Webinar for 4-H Judges

Shumao Ye (Dietetics) - *Faculty mentor: Manju Reddy* - Project name: New in vitro method for assessing food iron bioavailability

2013-14

Stephanie Blaser (Dietetics and Food Science & Industry) - *Faculty mentor: Christina Campbell* - Project name: The Blossom Project Cookbook

Win Cowger (Environmental Science) - *Faculty mentor: Richard Schultz* - Project name: Bhagsu Clean Watershed Project

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Meredith Lockin (Dietetics) - *Faculty mentor: Lorraine Lanningham-Foster* - Project name: The Real Foods Lifestyle Cookbook

David Nai (Chemical Engineering) - *Faculty mentor: Donald Sakaguchi* - Project name: Examining cell survivability and growth in biodegradable polymer conduits: implications for peripheral nerve regeneration

Dana Pralle (Dietetics) - *Faculty mentor: Sarah Francis* - Project name: Nutrition Needs and Preferences Assessment at Light of Hope in Kenya

2012-13

Pavel Brodskiy (Chemical Engineering and Biology) - *Faculty mentor: Donald Sakaguchi* - Project name: Effect of transfection of mesenchymal stem cells with neurotrophic factor genes on cellular proliferation, migration, and morphology

Kiersten Lee (Kinesiology and Health) - *Faculty mentor: Dr. Smiley-Oyen* - Project name: The impact a gross motor rhythmic sequencing intervention has on children with developmental coordination disorder

Zihui Lin (Animal Science Pre Vet and Companion Animal Management) - *Faculty mentor: N. Matthew Ellinwood* - Project name: Measures to evaluate Behavior, Learning and Memory in Canines with Mucopolysaccharidosis I and IIIB (MPS)

Leah Merner (Mechanical Engineering and International Studies) - *Faculty mentor: Jim Heise* - Project name: Design, Analysis, and Construction of Strip-Built Kayak

Kimberly Scherber (Civil Engineering) - *Faculty mentor: Bill Simpkins* - Project name: The Effect of the 2012 Drought on Lake/Groundwater Interaction at Clear Lake

Samantha Stearns (Biology) - *Faculty mentor: Fred Janzen* - Project name: Ontology of the Plastral Hinge of the Eastern Box Turtle, *Terrapene carolina*

Chen Wen (Electrical Engineering) - *Faculty mentor: Zhao Chang* - Project name: Vibration/Ring Auto-Switch Cellphone Application

2011-12

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Honors Program

Allie Bender (Animal Science) - *Faculty mentor: Dr. Butters-Johnson* - Project name: The effects of environmental enrichment during the holding period of shelter dogs on adoption rate

Sara Morine (Animal Science) - *Faculty mentor: Stephanie Hansen* - Project name: Determining the influence of dietary roughage concentration and source on rumen parameters related to hydrogen sulfide and ruminal pH

2010-11

Sarah Binder (Art History and Journalism & Mass Communications) - *Faculty mentor: Nancy Girard* - Project name: University Museums evaluation

Shellina Hayek (Kinesiology - Exercise Science) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Large Amplitude Intervention in People with Parkinson's Disease for Handwriting and Walking

Jessica Klein (Biology) - *Faculty mentor: Matthew Ellinwood* - Project name: Sanfilippo Syndrome (MPS IIIB); Brain Pathology in the Canine Model

Kelsey Williams (Kinesiology) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Movement Planning and Cognitive Functioning in Children

Nathaniel Looker (Agronomy and Global Resource Systems) - *Faculty mentor: Dick Schultz* - Project name: Monitoring dry-season transpiration in the ecosystems of a montane watershed in Zacapa, Guatemala

Kaitlyn Oberembt (Animal Science and Biology) - *Faculty mentor: Matthew Ellinwood* - Project name: Evaluating the Fertility of MPS IIIB Affected Males in the Canine Species

Colleen Pokorny (Apparel Merchandising, Design, and Production) - *Faculty mentor: Sara Marcketti* - Project name: Scaasi: American Couturier, The Iowa State University Collection

Mackenzie Reed (Genetics) - *Faculty mentor: F.C. Minion* - Project name: Role of Quorum Sensing in *Yersinia pestis*-Human Macrophage Interactions

Luke Roling (Chemical Engineering and Mathematics) - *Faculty mentor: Rhonda Bonett* - Project name: The Sounds of Hilton Magic

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Allison Shedek (Kinesiology - Exercise Science) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Large Amplitude Intervention in People with Parkinson's Disease for Handwriting and Walking

Kelly Wagner (Dietetics) - *Faculty mentor: Ruth MacDonald* - Project name: Children's Cookbook: During and After Cancer Treatment

2009-10

Stephen Anderson (Psychology and Philosophy) - *Faculty mentor: Eric Cooper* - Project name: An Attempt to Functionally Dissociate Visual Areas V1 and V2

Elizabeth Brock (Kinesiology and Health) - *Faculty mentor: Tim Derrick* - Project name: The Anti-Shear Shoe

Allison Connell (Graphic Design) - *Faculty mentor: Paula Curran* - Project name: Making Personal Visual Artists' Journals Public

Ilya Ellern (Mechanical Engineering) - *Faculty mentor: Emanuel Agba* - Project name: Deca-stage Assembly Lightweight Composite Car Body

Emma Flemmig (Agronomy, Biology, and International Agriculture) - *Faculty mentor: Mary Wiedenhoeff* - Project name: Development of Spanish Guide to Composting & Outreach with Workshops

Andrew Goers (Physics and Mathematics) - *Faculty mentor: John Lajoie* - Project name: Measurement of the Angular and Linear Momentum of a Bowler's Shot via an On-Body Detector

Ross Hanson (Kinesiology and Health) - *Faculty mentor: Amy Welch* - Project name: Psychological Affects of Cross-Training in Competitive Adolescent Athletes

Amy Jochims (Kinesiology) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Movement Intervention through Dance for Children

Chelsie Kohns (Genetics) - *Faculty mentor: Richard Martin* - Project name: Return of Strongyle Parasites Post Anthelmintic Treatment in Equine Host

Ming-Yee Li (Graphic Design) - *Faculty mentor: Steven Herrstadt* - Project name: A History of Vampires and Game UI

Max Mahaffey (Architecture) - *Faculty mentor: Pete Goche* - Project name: Chapel

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Heather Meardon (Dietetics) - *Faculty mentor: Eunice Bassler* - Project name: Childhood Obesity and Children's Books

Goran Micevic (Biochemistry) - *Faculty mentor: Kristen Johansen* - Project name: Identifying binding sites of the JIL1 kinase in the Drosophila genome: a ChIPchip assay

Brian Moore (Architecture) - *Faculty mentor: Pete Goche* - Project name: Chapel

Sarah Peiper (AMDP - Creative Design) - *Faculty mentor: Jessica Barker* - Project name: The Development and Production of Functional and Expressive Dance Costumes

Miriam Tate (Integrated Fine Arts) - *Faculty mentor: Joe Muench* - Project name: My Secret Hope (enameling project)

Victoria Watson (Graphic Design and Journalism) - *Faculty mentor: Paula Curran* - Project name: Norwegian Recipe Book

Kimberly Zamora (Graphic Design) - *Faculty mentor: Cherie Ure* - Project name: Studies in Roman Travel Publication for students abroad

2008-09

Monica Carolan (Graphic Design) - *Faculty mentor: Paula Curran* - Project name: Hemispheres Apart: How One Couple Stays Committed

Clark Colby (Architecture and Environmental Studies) - *Faculty mentor: Chan Chiu Shui* - Project name: Chinese Architectural Photography Study - Antiquity through Modern Day

Andrea Cook (Dairy Science) - *Faculty mentor: Diane Spurlock* - Project name: Relationship of Commencement to Luteal Activity and Energy Balance in Early Lactation Dairy Cows

Katherina Dimenstein (Interior Design) - *Faculty mentor: Fred Malven* - Project name: A Visual Study of the Growing Middle Class in China

Jennifer Flagg (Biology) - *Faculty mentor: Dennis Lavrov* - Project name: Molecular Cloning and the Evolutionary Relationship of the Mitochondrial Sery1-tRNA Synthetase from *Tethya wilhelma* (Demospongiae)

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Sarah Graham (Animal Science) - *Faculty mentor: N.M. Ellinwood* - Project name: Atypical Transitory Congenital Hypothyroidism in a Feline Colony

Jason Grimm (Landscape Architecture) - *Faculty mentor: Mimi Wagner* - Project name: Continuous Productive Urban Landscapes: A Sustainable Design Option to Growing Urban Communities in Iowa

Laura Larabee (Agricultural Biochemistry) - *Faculty mentor: Steve Herrstadt* - Project name: Into the Sunset: A Vision of the West

Brian Lewis (Electrical Engineering) - *Faculty mentor: Steve Jungst* - Project name: Analysis of a Typical Iowa Soybean Field

Laura Olsen (Animal Science) - *Faculty mentor: Matthew Ellinwood* - Project name: Dosage Analysis of a Colon Carcinogen in Rats

Alycia Reed (Art and Design) - *Faculty mentor: Gregory Duckett* - Project name: Fashion Off the Canvas

Tepei Shirakura (Biochemistry, Biophysics, & Molecular Biology) - *Faculty mentor: Edward Yu* - Project name: Structure-function Relations Associated with the CBS Domains and Protein Tails of the Nucleotide-Binding Proteins of Osmoregulatory ABC Transporter

Molly Staley (Biology) - *Faculty mentor: Carol Vleck* - Project name: Circulating Testosterone levels in adult Tree Swallows during the breeding season

Elizabeth Starrett (Food Science) - *Faculty mentor: Mark Love* - Project name: The Food Industry's Response to new FDA Regulations Regarding Trans Fatty Acids

Katherine Swanson (Health and Human Performance) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Step Width and Walking Stability in Young and Older Adults

Christopher Thomson (Animal Science) - *Faculty mentor: Matthew Ellinwood* - Project name: Association of Canine Distemper through Specific Genetic Line or Brand-Explicit Variation

Allison Walk (Biology) - *Faculty mentor: Ann Smiley-Oyen* - Project name: What are the Effects on Gait While Walking Under Different Conditions?

2007-08

IOWA STATE UNIVERSITY

Honors Program

Lindsey Altenhofen (Biology) - *Faculty mentor: John Dekker* - Project name: A Germination Assay to Determine the Dormancy Heterogeneity (Heteroblasty) among *Chenopodium album* Seeds from a Common Population

Lucas Carlstrom (Animal Science) - *Faculty mentor: George Brandt* - Project name: Identification of a Novel Genetic Mutation for von Willebrand disease in beagles or basset hounds

Andy Isaacson (Sociology) - *Faculty mentor: Stephen Sapp* - Project name: Examining the Foundations of Social Cohesion in Rural Communities: Cross-cultural Comparisons

Tyler Jessen (Architecture) - *Faculty mentor: Mikesch Mueke* - Project name: Orange

Kathleen Korn (Animal Science) - *Faculty mentor: Don Beitz* - Project name: Mechanism of Stearoyl-CoA Desaturase Inhibition by Oleic Acid

Elizabeth Mack (Animal Science) - *Faculty mentor: S. Lonevgan* - Project name: The Effect of Beta-Cyclodextrin on Post-thaw Viability of Cryopreserved Ram Semen

Ozioma Oji (Psychology) - *Faculty mentor: Stephanie Madon* - Project name: Influences on the Cumulative Effects of Self Fulfilling Prophecies

Marissa Reese (Child, Adult, & Family Services) - *Faculty mentor: Jennifer Margrett* - Project name: Life After the Wedding Bells

Laura Rudolph (Music) - *Faculty mentor: Donald Simonson* - Project name: Reflections on a Senior Recital

Lindsay Thompson (Kinesiology and Health) - *Faculty mentor: Ann Smiley-Oyen* - Project name: The Effect of Task Complexity on Walking in Young Adults

Allison Walk (Biology) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Gait Stability While Wearing a Backpack

Miko Wilford (Psychology and Political Science) - *Faculty mentor: Meg Gerrard* - Project name: Absent-Exempt Thinking About Alcohol Poisoning

Lisa Willman (Architecture, Spanish, and Psychology) - *Faculty mentor: Mikesch Muecke* - Project name: Urban Overflow: The Gentrification of a Prominent Denver Neighborhood

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ChenRu Zheng (Art & Design) - *Faculty mentor: Lin Wei-Chang* - Project name: Reinventing modern China through the Shadow of Mao, 1966-Present

2006-07

Emily Blaedel (Psychology) - *Faculty mentor: Nathaniel Wade* - Project name: The role of religious affiliation in forgiving behavior

Karin Brandt (Political Science and International Studies) - *Faculty mentor: Robert Mazur* - Project name: Examining the role of female traditional leaders in development partnerships: The Queen Mother in Manya-Krobo, Ghana

Theodore Brimeyer (Music) - *Faculty mentor: Donald Simpson* - Project name: Behind the Baton: How a musical production comes together

Andrea Butson (Graphic Design and Art & Design) - *Faculty mentor: Paula Curran* - Project name: The art of handwriting

Cathy Compton (Music Education) - *Faculty mentor: Gordon Gerrard and Donald Simpson* - Project name: Handel's Operas

Steven Diesburg (Physics and Environmental Science) - *Faculty mentor: Say Kee Ong* - Project name: Uganda small scale biogas, energy for a home

Kathrine Gilbert (Food Science and Human Nutrition) - *Faculty mentor: Linda Svendsen* - Project name: A comprehensive manual for optimized food science club fudge production

Luke Gran (Natural Resource and Ecology Management) - *Faculty mentor: Heidi Asbjornsen* - Project name: Assessment of the environmental benefits of reforestations on severely degraded lands in the Mixteca Alta region of southeastern Mexico using two indicators: infiltration and soil quality

Caleb Grote (Agricultural Biology) - *Faculty mentor: Don Beitz* - Project name: Oxyntomodulin, a new step in the understanding of food intake response

Brad Julius (Health and Human Performance) - *Faculty mentor: Timothy Derrick* - Project name: Saturation effects of human bone to mechanical stimuli

Nicole Lokenvitz (Health and Human Performance) - *Faculty mentor: Ann Smiley-Oyen* - Project name: The effect of support surface on walking balance in healthy young adults

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Maria Lux (Graphic Design) - *Faculty mentor: Arthur Croyle* - Project name: A Child's Exploration of Death in Different Cultures

Janice Marquardt (Mechanical Engineering) - *Faculty mentor: Pranav Shrotriya* - Project name: Microcantilever sensor calibration

Ryan McNair (Management Information Systems) - *Faculty mentor: Jim Trenberth* - Project name: BARJCHE 2007: Advanced Lighting Control

Heather Newhouse (Biochemistry) - *Faculty mentor: Rick Sharp* - Project name: Case Study - Overtraining in Iron man training

Audrey Norby (Genetics) - *Faculty mentor: Matthew Ellinwood* - Project name: A complete guide to canine and feline genetic testing

Cilia Maria Ruiz-Paz (Psychology and International Studies) - *Faculty mentor: Kathleen Hickok* - Project name: Women: Their place in the world

Kyle Schlapkohl (Management Information Systems) - *Faculty mentor: Kevin Scheibe* - Project name: MIS Image Management

Corey Schnobrich (Architecture) - *Faculty mentor: Ann Sobiech-Munson* - Project name: Place and the Tourist Experience

Katherine Wiegert (Biology) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Motor Learning, Retention and Transfer in People with Parkinson's Disease

Miko Wilford (Psychology and Political Science) - *Faculty mentor: Meg Gerrard* - Project name: Absent-Exempt Thinking About Alcohol Poisoning

Lisa Willman (Architecture, Spanish, and Psychology) - *Faculty mentor: Mikesch Muecke* - Project name: Urban Overflow: The Gentrification of a Prominent Denver Neighborhood

2005-06

Uttara Arora (Finance) - *Faculty mentor: Balaji Narasimhan* - Project name: Bollywood through the Cultural Lens: Indian Commercial Films' Reflection of Domestic Values and their Impact on the Diaspora

Karin Brandt (Political Science) - *Faculty mentor: Robert Mazur* - Project name: Examining the Role of Female Traditional Leaders

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Theodore Brimeyer (Music) - *Faculty mentor: Donald Simonson* - Project name: Behind the Baton: Putting a Musical Together

Catherine Compton (Music) - *Faculty mentor: Donald Simson* - Project name: Clara Schumann, Fanny Mendelssohn, and Alma Mahler: German Composers of the 19th and 20th Centuries

Beth Danowsky (Dietetics) - *Faculty mentor: Grace Marquis* - Project name: Characteristics of Responders to WIC Intervention Aimed at Increasing the Intake of Vegetables in 2 to 5 year old Children

Steven Diesburg (Physics and Environmental Science) - *Faculty mentor: Say Kee Ong* - Project name: Uganda small scale biogas, energy for a home

Amber Herman (Public Service & Administration in Agriculture) - *Faculty mentor: Robert Mazur* - Project name: Young Adult Farmers' Access to Farmer Groups: A Case Study of Young Adult Participation within Volunteer Efforts for Development Concerns in the Luwero (or Kumuli) District of Uganda, Africa

Mark Jacobson (Biology) - *Faculty mentor: Donald Sakaguchi* - Project name: Identification of Integrin Receptors Involved in the Proliferation, Differentiation, and Migration of Neural Stem Cells

Paul Keller (Finance) - *Faculty mentor: James Pease* - Project name: Essence of Iowa

Lisa Mattheussen (Architecture) - *Faculty mentor: Cameron Campbell* - Project name: Iowa State Photo Mosaic

Marnie Meylor (Graphic Design) - *Faculty mentor: Cherie Ure* - Project name: Photo Journal and Postcard Study of Italian Culture

Ruth Neil (Public Service & Administration in Agriculture) - *Faculty mentor: Florine Swanson, Joe Leisz, Chuck Morris, and Pamela Riney-Kehrberg* - Project name: Iowa's Place in 4-H's Past

Tyler Niska (History and English Literature) - *Faculty mentor: David Zimmerman* - Project name: The Anti-Western: American Frontier Revisionism in Film

Jessica Russell (Exercise Science and Health & Human Performance) - *Faculty mentor: Ann Smiley-Oyen* - Project name: Stability of gait in persons with Parkinson's disease under normal conditions and with visual or verbal cues

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Ramsey Tesdell (Technical Communication) - *Faculty mentor: Robert Mazur* -
Project name: Of Space and Place: The Future of Rural Livelihoods

