
2011–2012
Senior
Project
Celebration



ALLEGHENY
COLLEGE

2011–2012 Senior Project Celebration Poster Presentations

Art

Presenter: Jacqueline Reynolds
Major: Studio Art
Minor: Psychology & Creative Writing
Project Title: *Many Lives Worth Living*
Project Advisors: Sue Buck & George Roland

Biochemistry

Presenter: Alexander Berry
Major: Biochemistry
Minor: Music
Project Title: *Whole Genome Analysis Reveals That Conservation and Duplication Gave Rise to the Current V2R Gene Repertoire in Mammals*
Project Advisor: Kristen Webb

Presenter: Amanda McClelland
Major: Biochemistry
Minors: French
Project Title: *Single Bulge Mutations Affecting the Rate of DNA:RNA Duplexing*
Project Advisor: Alice Deckert

Biology

Presenter: Cameron Eddy
Majors: Biology & Environmental Science
Project Title: *Are Chipmunks Nosy Neighbors?: Eavesdropping on *Tamias striatus**
Project Advisor: Scott Wissinger

Presenter: Jessica Russell
Major: Biology
Project Title: *Identification of Sequences Important for UBX Regulation of CG13222 edge CRE*
Project Advisor: Lisa Whitenack

Presenter: William Sharpnack
Major: Biology
Minors: Philosophy & Religious Studies
Project Title: *Identification of Sequences Important for UBX Regulation of CG13222 edge CRE*
Project Advisor: Bradley Hersh

Chemistry

Presenter: Ian Armstrong
Major: Chemistry
Minor: Psychology
Project Title: *Nucleophilic Additions to Iron-Diene Complexes Through Boron-Mediated Transfers*
Project Advisor: Phillip Persichini

Presenter: Michelle Perry
Major: Chemistry
Minor: French
Project Title: *Synthesis of Marine Natural Product Analogs for the Development of a Biomimetic Anti-Foulant*
Project Advisor: Shaun Murphree

Communication Arts

Presenter: Shannon Reilly
Major: Theater
Minor: Psychology
Project Title: *Stage Management: The Art of Communication*
Project Advisor: Michael Mehler

Computer Science

Presenter: Molly Mattis
Major: Computer Science
Minor: Economics
Project Title: *GA-Connect Four: Towards Evolving an Optimal Computer Opponent*
Project Advisor: Robert Roos

Presenter: Zachary Williams
Major: Computer Science
Minor: Psychology
Project Title: *A Multicore Scheduler for Process-Oriented Programming*
Project Advisor: Matt Jadud

Economics

Presenter: Brittany Bagnato
Major: Economics
Minor: English
Project Title: *Competitive Strategies in the Bookstore Industry: An Empirical Study of Borders and Barnes & Noble*
Project Advisors: Stephen Onyeiwu & Russell Ormiston

Presenter: Keegan Henrikson
Major: Economics
Minor: English
Project Title: *The Determinants of Durable Manufacturing Employment Growth*
Project Advisor: Stephen Casler

English

Presenter: Vyasari Ganesan
Major: English
Minor: Physics
Project Title: *Makers*
Project Advisors: Matthew Ferrence & Benjamin Slote

Presenter: Ashlee O'Donnell
Major: English
Minor: Political Science
Project Title: *Assimilation through Womanhood: Feminine Roles and Female Sexuality from the Dominican Republic to the United States for the Garcia Girls*
Project Advisors: M. Soledad Caballero & Jeremy Wells

Presenter: Julie Ropelewski
Major: English
Minor: Psychology
Project Title: *The Roles and Representations of Grandparents in Roald Dahl Novels*
Project Advisors: Susan Slote & Terra Caputo

Presenter: Vicki Vargas
Major: English & Women's Studies
Project Title: *To Go to Alto Gordo*
Project Advisors: Christopher Bakken & Jennifer Hellwarth

Environmental Science & Environmental Studies

Presenter: Jodi Apps
Major: Environmental Studies
Minor: English
Project Title: *Diet Diversification: A Food-based Approach to Combat Micronutrient Deficiencies in Morocco's Tifnoute River Valley*
Project Advisors: Eric Pallant, Kate Darby, & Laura Reeck

Presenter: Erin Cavagnaro
Major: Environmental Science
Minor: Economics
Project Title: *Utilizing Food Waste to Lower the pH of Allegheny College's Pilot Recirculating Aquaponic System*
Project Advisors: Thomas Eatmon & Eric Pallant

Presenter: Jennifer Lauer
Major: Environmental Studies
Minor: Studio Art
Project Title: *Family Style Sustainability: Addressing the Impacts of Climate Change and Domestic Violence Through Food Ritual and Culinary Education*
Project Advisors: Eric Pallant & Kate Darby

Presenter: Pat McLaughlin
Major: Environmental Science & History
Project Title: *The Role of Historical Context in the Study of Environmental Science: The Landscape History of Dutch Springs as a Case Study*
Project Advisors: Kristin Wilson & Barry Shapiro

Presenter: Courtney Papinchak
Major: Environmental Science
Minor: English
Project Title: *Risk Analysis of Sugar Maple Decline in Northwest Pennsylvania Using a GIS*
Project Advisor: Terry Bensel

Presenter: Chris Plano
Major: Environmental Science
Minor: Political Science
Project Title: *Transit Accessibility to Healthy Food and Employment for Low Income Residents of Baltimore, MD*
Project Advisors: Kate Darby & Chris Shaffer

Geology

Presenter: Erin Birsic
Major: Geology
Minor: Dance and Movement Studies
Project Title: *Evolution of an Early-Late Paleocene Granitic Pluton and Associated Garnet-Bearing Granitic Dikes and Migmatite in a Collisional Terrane Suture Zone, Talkeetna Mountains, South-Central Alaska*
Project Advisor: Ronald Cole

History

Presenter: Elizabeth Keene
Major: History
Minor: English
Project Title: *"Holocausts of Herself": The Life of Varina Howell Davis, First Lady of the Confederacy*
Project Advisors: Paula Treckel & Ian Binnington

Presenter: Forrest Smith
Major: History
Minor: Religious Studies
Project Title: *Count Stephen of Blois: Victim of History*
Project Advisors: Stephen Lyons & Kenneth Pinnow

Presenter: Alicia Watts
Major: History & Women's Studies
Project Title: *From Dresses to Flight Suits: The Story of the Women Air-force Service Pilots of World War II*
Project Advisors: Paula Treckel & Barbara Shaw

International Studies

Presenter: Kathleen Bacon
Major: International Studies
Minor: Music Performance & Spanish
Project Title: *Argentina: Radical or Moderate Democracy?*
Project Advisor: Shannan Mattiace

Presenter: Amy Frake
Major: International Studies & History
Minor: Chinese
Project Title: *Language Reform is Not a Dinner Party: The Evolution of Language, Literacy, and Identity in China*
Project Advisors: Guo Wu, Sharon Wesoky, & Xiaoling Shi

Presenter: Elise Swanekamp
Major: International Studies & Environmental Studies
Minor: Spanish
Project Title: *Uses of Indigenous Identity: Coffee Cooperatives and Fair Trade in Southern Mexico*
Project Advisors: Shannan Mattiace & Terry Benschel

Mathematics

Presenter: Meaghan Volek
Major: Mathematics
Minor: Asian Studies
Project Title: *Mathematical March Madness*
Project Advisor: Rachel Weir

Modern and Classical Languages

Presenter: Kerry Drew
Major: French
Minor: Psychology
Project Title: *Secularism in France: A Comparison of the 1905, 2004 and 2010 Laws and Their Affects on French Muslims*
Project Advisor: Laura Reeck

Presenter: Leah Jaenicke
Major: Spanish
Minor: Political Science
Project Title: *Iluminando las sombras del pasado: un estudio de la emigración española a otros países europeos durante el tardofranquismo*
Project Advisor: Teresa Herrera

Presenter: Jordan Metcalfe
Major: French
Minor: History
Project Title: *Les attaques contre le pouvoir dans les représentations des corps pendant la Révolution Française*
Project Advisor: Briana Lewis

Presenter: Arthur Smith
Major: Spanish
Minor: Political Science
Project Title: *Futbol y cuento en Argentina contemporanea: Osvaldo Soriano y Eduardo Sacheri*
Project Advisor: Wilfredo Hernandez

Neuroscience

Presenter: Ryan Brindle
Major: Neuroscience & Psychology
Project Title: *The Relationship between Depression and Cardiovascular Reactivity to Acute Psychological Stress*
Project Advisor: Sarah Conklin

Presenter: Natalie Brzoza
Major: Neuroscience
Minor: English
Project Title: *Effects of Prenatal Nicotine Exposure on the Age-related Ventilatory Response to Hypercapnia in Neonatal Mice*
Project Advisor: E. Lee Coates

Presenter: Georgia Frost
Major: Neuroscience
Minor: Economics
Project Title: *The Effects of C. striatus Venom on the T-Type Calcium Channel Cav3.2*
Project Advisors: Lauren French & Jeffrey Hollerman

Philosophy and Religious Studies

Presenter: Bennett Buchanan
Major: Religious Studies & Psychology
Project Title: *The Buddhist Doctrine of Not-Self: Implications for Psychological Approaches to Anxiety*
Project Advisors: Carl Olson & Elizabeth Ozorak

Physics

Presenter: Samuel FINDER
Major: Physics
Minor: Religious Studies
Project Title: *The Morphology of Fullerene-Doped Porphyrin Discotic Liquid Crystals and Its Effect on Charge Mobility in the Condensed Phase*
Project Advisor: David Statman

Presenter: Samuel Knarr
Major: Physics
Minor: Economics
Project Title: *Predicting Phase Transitions Using Degeneracies in Spin Concentrations on an Antiferromagnetic Potts Model*
Project Advisors: Shafiqur Rahman & Doros Petasis

Presenter: Caitlyn Neidig
Major: Physics
Minor: English
Project Title: *Water on a Hydrophobic Surface: Contact Angle vs. Depletion Layer*
Project Advisor: Adele Poynor

Political Science

Presenter: Molly Bucci
Major: Political Science
Minor: Religious Studies
Project Title: *The Evolution of the Refugee: From Victim to Perpetrator*
Project Advisor: Shanna Kirschner

Presenter: Nathaniel Ehrman
Major: Political Science & History
Minor: Chemistry & Italian Culture and History
Project Title: *The Democratization of Post-Fascist Italy: How Allied Policies and Goals during their Occupation of Italy Created the Base for a Democratic Future*
Project Advisors: Jacqueline Gehring & Kenneth Pinnow

Presenter: Emma Victorelli
Major: Political Science
Minor: German & English
Project Title: *Educational Tracking and its Effect Upon the Academic Experiences and Labor Market Integration of Second-Generation Turkish Immigrants in France and Germany*
Project Advisors: Jacqueline Gehring & Shannan Mattiace

Psychology

Presenter: Ashley Adamson

Major: Psychology

Minor: Creative Writing

Project Title: *The Effects of Social Interaction and Social Isolation and Handling on Male and Female Sprague-Dawley Rats When Learning to Navigate a Multiple T-Maze*

Project Advisor: Rodney Clark

Presenter: Christian Plourd

Major: Psychology

Minor: Communication Arts

Project Title: *Navigation Style and Product Familiarity's Effect on Banner Blindness*

Project Advisors: Aimee Knupsky & Patricia Rutledge

Women's Studies

Presenter: Lauren Marosi

Major: Women's Studies

Minor: Art History

Project Title: *Reframing Resistance: Feminist Interventions in Understanding the Prison Industrial Complex and Mobilizing a Movement for Social Change*

Project Advisor: Barbara Shaw & Jennifer Hellwarth



Special Thanks to:

The Allegheny College Board of Trustees
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