

University of Rochester Student Presenters at NCUR

1991-2000

National Conference on Undergraduate Research

University of Montana, April 27-29, 2000

Student	Adviser	Department	Title
Arana, Fernando Sergio	Haber, Suzanne	Neurobiol. & Anatomy	The Effects of Partial Dopamine Depletion on Exploratory Behavior and Cognition
Blechman, Andrew	Ferbel, Thomas	Physics & Astronomy	Direct Measurement of Branching Ratio of t Wb at the DO Detector at Fermilab
Castro, Jason	Meriney, Steven	Neuroscience, Univ. of Pittsburgh	Changes in Ca ²⁺ Channel Organization at the Frog Neuromuscular Junction During Regeneration: The Role of Active Zone Structure and BK Channels in Cooperativity
Cleghorn, Kerri	Ryan, Richard	Clin & Soc Psychology	The "Unnatural" Killer: The Effects of Gender Stereotypes on Perceptions of Female Serial Killers
Inamdar, Peenak	Pawlicki, Thaddeus (NIST)	Computer Studies	Simulation of Manual Assembly Factories
Jurado, Miriam	Funkenbusch, Paul	Mechanical Engineering	1045 Steel as a Temperature Indicator
Liu, Mark	Mueller, Carl	Mathematics	The Spread of a Rumor in a Non-Homogeneous Population
Marsh, Katherine	Peck, Russell	English	"Mondo Trasho": The Bio Degradable Vision of John Waters
Nowobilski, Jennifer	d'Angio, Carl	Pediatrics	Expression of the Rabbit Chemokine Gross During Oxygen Stress and the Cloning of its Promoter
Quinn, Patrick J.	Westbrook, Robert	History	Labor Unrest and Perceptions of Sacrifice in Home Front America: An Analysis of the Coal Strikes of 1943
Romanoff, Dana	Foster, Robert	Anthropology	"Trokosi" in Klikor, Ghana

Schoon, Ebony	Funkenbusch, Paul	Mechanical Engineering	1045 Steel as a Temperature Indicator
Singh, Daljit	Eickbush, Thomas	Biology	Retrotransposable Elements that Insert into rRNA Genes
Thibodeau, Brian	Balakirsky, Stephen (NIST)	Computer Studies	Generating Cost Maps for an Autonomous Vehicle
Thomas III, Samuel	Goodman, Joshua	Chemistry	Intramolecular Charge-Transfer Complexes and Energetic Disorder in Amorphous Organic Solids
Wang, Torr-Jong Albert	Wu, Wenhao	Physics & Astronomy	The First Noise Study in Organic Light Emitting Devices

1999 National Conference on Undergraduate Research
University of Rochester, April 8-10, 1999

Student	Adviser	Department	Title
Arnold, Michael A.	Angerer, R. C.	Biology	Perturbation of TGF- β -Superfamily Signaling Alters Sea Urchin Ectodermal Fates
Asher, Evan	Reis, H.	Psychology	Capitalization on Positive Events in Relationships
Barczys, Matthew	Pipher, J. L.	Physics & Astronomy	A Near-Infrared Survey of Star Formation Regions L988e
Bender, Eva R.	Dewhurst, S.	Microbiology & Immunology	Use of an SV40 Based Vector System to Express Foreign Genes in Primary Lymphocytes and Macrophages
Bruns, Marla Beth	Nordeen, E. J.	Brian & Cognitive Sciences	The Effects of Virally Transfected BDNF on Cell Death in the Zebra Finch Brain
DeCiero, David	Powers, J. M.	Pathology & Laboratory Medicine	The Dorsal Root Ganglia (DRG) in Adrenomyeloneuropathy (AMN)
Dennett, Matthew	Park, K.; Melvin J. E.	Center for Oral Biology	Functional Characterization of Expressed mCln3 in NIH3T3 Cells
Diamond, Joshua	Turner, D. H.	Chemistry	Determination of the Thermodynamic Parameters of RNA Multibranch Loops
Dowell, Kristin L.	Berlo, J.	Art & Art History	A Nod to the Ancestors: Innovation in Contemporary Pueblo Pottery

Drezner, Noah Brown, Meghan	Fehn, U.	Earth & Environmental Sciences	Anthropogenic ¹²⁹ I in Surface Waters of the Southern Hemisphere: Tracing the Fallout of Nuclear Activities
Hanley, Jennifer L.	Borus, D. H.	History	The Impact of the Flower City Conspiracy on Rochester Activism
Herndon, Hillary	Hahn, T.	English	The Outlaw King, An Operetta
Jennings, Catherine Ann	Hayhoe, M. H.	Brian & Cognitive Science	Driving in a Virtual Environment: Use of the Looming Cue in Car Following
Kasper, Matthew	Zauderer, M.	Cancer Center	Composition of Ribosomal Gene Expression in Norman and Tumor Cells
King, David M. Phillips, Shannon	Palmer, H. J.	Chemical Engineering	Mixing Efficiency in an Unconventional Tank Configuration
Krishnaswami, Govind S.	Gonek, S.	Mathematics	On the Distribution of Inverses Modulo a Prime Number
Krishnaswami, Govind S.	Bodek, A.	Physics & Astronomy	Non-Linearity in Hadronic Response of NuTeV Calorimeter
Krishnaswami, Govind S.	Rajeev, S. G.	Physics & Astronomy	A Model of Interacting Partons for Hadronic Structure Functions
Layden, Michael	Hagen, F.	Oral Biology	Completing the UDP-GalNAc:polypeptide N-Acetyl-galactosaminyltransferase (ppGalNTase) Family
Malhi, Namrita	Haidaris, C. G.	Microbiology & Immunology	Cloning and Characterization of KEXI, a Kexin-Like Protease in Mouse <i>Pneumocystis carinii</i>
Manubay, Grace	Anbar, A. D.	Earth & Environmental Sciences	Hg Isotopic Ratios Used as a Tracer in Biomedicine
McCauley, Jr., Henry W.	Brown, C.	Computer Science	Performance Analysis of an Object Recognition System for a Particular Application
Melenkivitz, Rory	Bren, K. L.	Chemistry	Structural Differences in Urea, Guanidine Hydrochloride, and Methanol Denatured Cytochrome <i>c</i>
Meyer, Erika L.	Zusman, S.	Biology	Functional Studies of Paxillin in the Development of <i>Drosophila melanogaster</i>
Moffa, Matthew J.	Bigelow, N. P.	Physics & Astronomy	Two-Trap Confinement and Bose-Einstein Condensation
Murthy, Ananthram S.	Weimer, D.	Political Science	Do Patients in HMOs Have Access to High Quality Physicians? <i>Insurance Type and Choice of Physicians for Coronary Artery Bypass Surgery</i>

Nasipak, Brian T.	Benyajati, C.	Biology	Competitive Interactions of Three Steroid Hormone Receptors and an Adh Distal Promoter Regulatory Element
Nyberg, Timothy J.	Holtzman, D. A.	Brain & Cognitive Science	Environmental Cues Used by Juvenile Corn Snakes (<i>Elaphe g. guttata</i>) for Spatial Learning and Memory of an Escape Task
Pero, Joseph	Miller, B. L.	Chemistry	Lewis Acid Catalyzed Diels-Alder Reactions of Sterically Hindered Cyclobutane and Cyclopropane-Substituted Dienophiles
Polizzotto, Matthew	Anbar, A.	Chemistry/Earth & Environmental Sciences	Molybdenum Isotopic Fractionation
Pruss, Sara B.	Tarduno, J.	Earth & Environmental Sciences	Cretaceous Fossil Assemblage from the High Canadian Arctic
Przybyla, Sarahmana	Jacobs, B.	Political Science	Religious Hospital Mergers: Implications for Reproductive Health Services
Reichman, Aaron	Pipher, J. L.	Physics & Astronomy	A Near-Infrared Examination of Starburst Galaxy Arp 299
Reidmiller, Jeffrey S.	Marquis, R. E.	Microbiology	Oxidative Damage to Bacillus Spores
Reyzelman, Marat	Kanuf, P. A.	Biochemistry & Biophysics	Fluorescence Measurements of the Effect of Woodward's Reagent K (WRK) on the Affinity and Binding/Dissociation Rates for Binding of an Oxonol Dye to the Human Red Blood Cell Anion-Transport Protein (Band 3)
Sakai, Jill	Holtzman, D.	Brain & Cognitive Sciences	Up-Regulation and Expansion of Neuronal Precursor Cell Division in the Regenerating Vomeronasal Epithelium Two and Four Weeks after Vomeronasal Nerve Lesion
Scher, Howard D.	Tarduno, J. A.	Earth & Environmental Sciences	New Evidence for a Warm Arctic Climate During the Late Cretaceous
Schott, Jeremy	Cadorette, C.	Religion & Classics	Christians and Violence in Carthage: 100-300 CE
Silverman, Peter	Melvin, J.	Center for Oral Biology	Defining the Minimal Domains Necessary for an Interaction Between CLCN3 and a Novel ARF-Like Protein Using the Yeast Two-Hybrid System
Tsai, Jack	Nahm, M.	Pediatrics-Immunology	Peptide Epitopes Recognized by a mouse anti- <i>Streptococcus pneumoniae</i> Polysaccharide Antibody
Tyler, Ryan E.	Clark, V. L.	Microbiology & Immunology	The Characterization of transcytosis of <i>Neisseria gonorrhoea</i> Using Polarized HeLa Monolayers

Veyberman, Yana	Wang, N.	Pathology	Identification of Differentially Expressed Transcripts Associated with Suppression of Tumorigenicity in Human Ovarian Cancer
Weaver, Karrie L.	Basu, A.	Earth & Environmental Sciences	Trace Element and Nd, Si - Isotopic Geochemistry of the Kerguelen Plume
Willmert, Leslie	Bambara, R. A.	Biochemistry & Biophysics	Construction of Variant Estrogen Receptors
Zeller, Benjamin E.	Green, W. S.	Religion & Classics	Heaven's Gate: Religion or Cult?

1998 National Conference on Undergraduate Research
Salisbury State University, Salisbury, MD April 25-27, 1998

Student	Adviser	Department	Class	Title
Geurkov, Gregor	Ferbel	Physics & Astronomy	98	Determination of Quantum Efficiency of Visible Light Photon Counting (VLPC) Devices
Helfrich, Joel	Kaeuper	History	98	The Knight and the English Gentleman: A Study of Chivalry and the Boy Scout
Ittig, Maureen	Foster	Anthropology	98	Child Adoption in India: Exploring the Child's Role Within the Indian Family Structure
Juang, Paul	Dinnocenzo	Chemistry	98	Investigation of the Active Species of Cytochrome P-450
Kazukiewicz, Renee	Fehn	Earth & Env. Sci.	98	Marine Sediment Recycling in Subduction Zones
Lichenstein, Eric	Lennie	Center for Vis. Sci.	98	Color Representation in the Visual Cortex
Moi, Michael	Walmsley	Optics	98	Measurement of High Peak Intensity with Improvement on Focusability for Short Pulses
Rosenberg, Sondra	Tipton	Physics	99	Measurement of Top Quark and Anti-topQuark Mass
Saadat, Mohammed	Gracewski	Mech. Eng.	00	To Investigate the Affect of Changing the Concentration of Diamonds on the Micro-roughness of a Precision Optical Lens
Sawicki, Denise	Ferbel	Physics	98	Search for Rare Top Decays

Schoggins, John	Pentland	Dermatology	99	Prostaglandin Induction by Ultraviolet Light Irradiation in Mice is Mediated by Cyclooxygenase-2
Scott, Luisa	Nordeen, K	Brain & Cog. Sci.	98	Relationship Between the Rate of Neuron Addition and Vocal Plasticity in Adult Songbirds
Sortland, Kari	Hayhoe	Brain & Cog.Sci.	98	Using Eye Movements to Look at Short Term Memory
Tran, Lien	Perkins	Pol. Sci.	98	An International Comparison of Health Care Policy for the Asian Ethnic Minority
Young, Clinton	Applegate	History	98	Composing Under a Totalitarian Baton

1997 National Conference on Undergraduate Research
University of Texas, Austin, April 24-26, 1997

Student	Adviser	Department	Class	Title
Andre, Troy	Orr	Physics & Astronomy	98	Top Quark Physics and Gluon Radiation
Blackstone, Eric A.	Angerer	Biology	98	Posttranscriptional Regulation of SpFGFR in Adult Sea Urchins
Bordenstein, Seth R.	Werren	Biology	97	Evolution of Heritable Microbes and Their Role in Host Reproduction
Carpenter, Christine	Palmer	Chemical Engineering	97	Gas-Liquid Mass Transfer in an Unconventional Tank Configuration
Cugalj, Adam P.	Ramsey	English	97	The Bean Lady
Dowd, Michelle	Kaeuper	History	97	The Stonor Letters and the Wars of the Roses
Dunning, Julie C.	Marquis	Microbiology & Immunology	97	Oxidative and Transition Metal Damage to <i>Streptococcus mutans</i>
Hilton, David	Gao	Physics & Astronomy	97	Photoelectrochemical Solar Cells Using Organic Pigment Nanoparticles

Hotopp, Kerry	Kaeuper	History	97	Justice and War under Edward III
Kim, Karen Sue	Dumont	Biochemistry & Biophysics	97	Receptor-G Protein Coupling: Mutations in the Yeast Pheromone Receptor that Suppresses Specific Mutations in the α Subunit of the G Protein
Nordstrom, Justin	Rubin	History	97	The Child's Church: Bernard McQuaid's Legacy of Catholic Education
Veramendi, Gregory	Tipton	Physics	98	The Development of a Monte Carlo Simulation for the Track Trigger Processor at CDF
Wilkison, Sarah L.	Tarduno	Earth & Environmental Sciences	97	Magnetic Hysteresis Data and Bacterial Magnetite from the Western Equatorial Pacific Ocean
Wyckoff, Chad A.	Frisina	Otolaryngology	97	Age-Related Increases in Calretinin Immunoreactivity in the Ventral Cochlear Nucleus of the CBA and C57 Mouse Models of Presbycusis

1996 National Conference on Undergraduate Research
University of North Carolina, Asheville, April 18-20, 1996

Student	Adviser	Department	Class	Title
Chikkatur, Anand	Bodek	Physics	97	Measuring Cosmic Ray Muons: CCFR Fermilab
Clinton, Joshua	Johnson	Economics & Political Science	96	Putting Pragmatist Political and Legal Philosophy into Practice
Freiburg, Evan	Eisenberg	Chemistry	96	Synthesis of a Platinum Complex for Electron Hole Creation and Separation
Hall, Thomas	Burns	Biology	96	Enzyme Requirement for Optimal Urease Expression in Streptococcus Salivarius
Keon, Nicole	Poreda	Chemistry &	96	Helium Isotope Ratios within C-60 as Indicator of Fullerene

		Environmental Sciences		Origin
Lee, Sang Hun	Bigelow	Optics	96	The Atom Valve
Michaud, Kaleb	Bodek	Physics and Astronomy	96	GEANT Computer Simulation for the CMS End Cap Test Beam Calorimeter
Olson, Valerie	Kellogg	Biological Science and Neuroscience	96	Neurosteroid Action at the GABA _A Receptor
Pandya, Sheel	Haber	Biological Science & Neuroscience & Education	96	The Effect of a Toxic Lesion as a Model for Parkinson's Disease
Reddy, Satya	del Cerro	Biological Science, Microbiology & Economics	96	Evaluation of Visual Development Using the Water Escape Test
Semenova, Jacqueline	Zusman	Biological Science	96	Isolation of Mutation in Beta Nu Sub-unit of Integrin in <i>Drosophila Melanogaster</i>
Van Doren, Margaret	Nordeen	Biological Science & Neuroscience	96	The Effects of Sexually Dimorphic Gliogenesis in the Avian Brain

1995 National Conference on Undergraduate Research
Union College, Schenectady, April 1995

Student	Adviser	Department	Class	Title
Agrawal, Kapil		Chemical Engineering	95	Effective Diffusivities in 3-D Multiphase Media
Bentley, Jennifer		Women's Studies & English	95	Androgyny and the Performance of Gender in Virginia Woolf and Vita Sackville-West

Byrd, Jonathan		Biological Science & Neuroscience	95	Superior Olivary Complex Inputs to the Dorsomedial Inferior Colliculus of the CBA Mouse-Model of Presbycusis Remain Stable with Age
Clinton, Joshua		Economics & Political Science	96	Foucault's Prescription for Resistance
Murphy, Sheila		Art History	96	Cleopatra as an Early Modern Other: Multiculturalism in the Visual Arts
Newman, Tina		Biological Science & Neuroscience	95	Short-Term Memory for Visual Motion in the Macaque Monkey
Rapp, Cynthia		Political Science & Economics	96	Neighborhood Based Services: A Rochester Case Study
Reynolds, Kiley		Biological Science & Biochemistry	95	The Effect of Lead on Growth Plate Chondrocytes
Schneider, Brian		Biological Science & Biochemistry	95	High Resolution Representation of the R2Bm Protein Binding of the 28S Ribosomal Gene Sequence
Zubris, Deanna	Jones	Chemistry	95	Photoinitiator Effects in the Polymerization of Optical Fiber Coatings

1994 National Conference on Undergraduate Research
Western Michigan University, Kalamazoo, April 14-17, 1994

Student	Adviser	Department	Class	Title
Chu, Jason		Computer Science & Applied Mathematics	94	Fixation Guided Hand-Eye Coordination
Fullerton, Stephanie		Biochemistry	94	Regulation of Neuronal Calmodulin Through Endogenous Calmodulin Binding Proteins

Greenleaf, Jennifer		Chemical Engineering	95	A Novel Strategy for Improving the Mixing Efficiency of Rotary Impellers in Cylindrical Tanks
Rogers, Gregory		Biology	94	Assay of Artificial Fusion Between Polyploid Yeast Spheroplasts and <i>Arabidopsis thaliana</i> Protoplasts by Fluorescence Microscopy
Su, Mark		Physics	95	Secondary Striations in the Positive Column of Glow Discharges
Taylor, Brian		Physics	95	Secondary Striations in the Positive Column of Glow Discharges
Ver Plank, Lynn		Biology	94	Germ Line Transformants of <i>Tetrahymena thermophila</i>
Walker, Matt		Political Science	94	City Status and Progressive Municipal Reform: The 1909 Charter Reform Movement in Boston
Williams, Carlo		Electrical Engineering	94	Femtosecond Solid State Lasers - Principles and Applications
Wu, Di		Electrical Engineering	94	Electrical Transport Properties of YBa ₂ C ₃ O _{7-x} Superconductors

1993 National Conference on Undergraduate Research
University of Utah, Salt Lake City

Student	Adviser	Department	Class	Title
Daost, Jeffrey	Frederick	Psychology	93	After the Thrill is Gone: A Conceptual Framework for Competition Withdrawal
Horn, Lynn	Mukamel	Chemistry	93	Studies of J-Aggregated Dyes
Kenjarski, Thomas	Kellogg	Neuroscience	93	Effects of Prenatal Exposure to Diazepam on Adult Social Behavior in Female Rats Related to Altered Sensitivity of GABA/A Receptor to Steroids
Knapp, Jessica	Olschowka	Neurobiology & Anatomy	93	In Vivo Localization of Interleukin-I Receptor Antagonist mRNA

Mosammaparast, Mana	Benyajati	Biology	94	Transcription Regulation of the Alcohol Dehydrogenase Gene in <i>Drosophila Melanogaster</i>
Pankow, Keith	DeCelles	Geological Sciences	93	Sedimentology and Facies Architecture of Dakota Formation
Rifkin, David	Knox	Physics	94	An Application of the Quantitative Treatment of Exciton Splitting in Photosynthetic Antennae Systems
Ritts, Bradley	Fehn	Geology	93	Systematics of 129-I Distributions in Marine Sediments
Ross, Eric	Rizzo	Chemistry	93	Synthesis, Photodissociation and Vibrational Overtone Spectroscopy of HOCl
Sussman, Aviva	Seiberling	Art History	93	Photography in Geology: Aesthetic Value and Documentary Importance
Zhou, Aihua	Ferbel	Physics	94	Sensitivity of the Yield of Hydronic Jets to Nucleon Sub-structure

1992 National Conference on Undergraduate Research
University of Minnesota, April, 1992

Student	Adviser	Department	Class	Title
Bollinger, Britt	Ebenhack	Douglass Institute	93	The Economics of Small Scale Gas Development in the Third World
Biggar, Stephen	Lord	Immunology	92	Production of TGF-B by EMTA and Inhibition of the Effects of TGC-B on Lymphocytes
Davis, Katherine	Hahn	English	92	Turning Toward Silence and the End of Art: The Production of Meaning in JM Coetzee's <i>Foe</i>
Grace, Andrew	Kellogg	Neuroscience	93	Sex Differences in Neuron Loss Within a Forebrain Nucleus Involved with Avian Song Learning
Hewitt, Gillian	Ebenhack	Douglass Institute	93	The Developmental Role of Small Supplies of Natural Gas in Third World Regions

Hodge, Dexter	Wengler	Electrical Engineering	92	Audio Feedback as an Aid to Hurdling Performance
Ingerowski, Eric	Werren	Biology	92	Putative Role of a DNA Binding Protein in the PSR System of <i>N. vitripennis</i>
Ngan, Ching-yuk	Ferbel	Physics	93	The Response of Liquid Argon Calorimeters as a Function of Absorber Thickness and Cladding
Ross, Eric	Bambara	Biochemistry	92	Purification and Characterization of DNA Polymerase Epsilon
Setty, V. P.	Ebenhack	Douglass Institute	92	Energy Development in Africa
Soong, John	Brown	Computer Science	92	Inverse Kinematics and Gaze Stabilization of the Rochester Robot Head
Swank, David R.	Werren	Biology	92	Wing Morphology and Speciation Genetics in <i>Nasonia</i>
Thompson, Moses	Ebenhack	Douglass Institute	92	Appropriate Technology for Small-Scale, Third-World Gas Development
Tsunoda, A. Reiko	Tennenhaus	Psychology	92	Results of an Experiment in Psycholinguistics

1991 National Conference on Undergraduate Research
California Institute of Technology, Pasadena, April, 1991

Student	Adviser	Department	Class	Title
Abbott, Sheri	Fields	Douglass Institute	91	Civil Rights Protest and the Cold War
Biggar, Stephen	Prakash	Biology	92	PHP3, the S.P. Homologue of the S.C. DNA Repair Helicase RAD3
Butler, Paul	Ebenhack	Douglass Institute	91	The Energy Development Prospects in Africa: A Three-Sided Coin
Dunn, Elizabeth	Carter	Anthropology	92	Cultural Diversity as Dissent
Eskin, Rachel	Overman	Religion	91	The Beta-Israel: Development of Judaism in the Ethiopia

				Context
Ilahi, Au'Ra	Inikori	Douglass Institute & History	92	The Jihad of Shaik Uthman Dan Fodio
Weldgen, Richard	Hoy	History	91	Like a Great German Clock: Artifice, Affectation, and the Auralty of Satire in Jonson's <i>Epicoene</i>