

Name	TITLE	Major/Concentration	Advisor	Grad
Abhishek Sharma		Computer Science		g
Addie Evans		Mathematics		g
Andrew Carriman	Characterizing ecdysis behavior in the stick insect, <i>Carausius morosus</i>	Physiology and Behavioral biology	Dr. Megumi Fuse	g
Andrew Core	The Effects of a Newly Discovered Parasite ( <i>Apocephalus borealis</i> ) on the Health of Honey Bee Colonies	Conservation Biology	Dr. John Hafernik	g
Andrew Herrmann	??	Mathematics	Dr. Matthias Beck	g
Anita Yip	Effects of Food Availability on Neurogenesis in the Tobacco Hornworm, <i>Manduca sexta</i>	Physiology and Behavioral Biology	Dr. Chris Moffatt	g
Anuj Pushkarna	Reliability Analysis of Power Gated SRAM under Combined Effects of NBTI and PBTI in Nano-Scale CMOS	Electrical Engineering	Dr. Hamid Mahmoodi	g
Avisa Tehrani	Anonymous Communication in Mobile ad hoc networks	Engineering	Dr. Hamid Shahnasser	g

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Bitra Nosratieh	Convexity of Domains of Best Approximation	Mathematics	Dr. Yitwah Cheung	g
Brennan Wenck	Biodiversity and Phylogeny of Marasmuis of Nor Yungas, Bolivia	Ecology and Systematics	Dr. Dennis Desjardin	g
Cathy Samayoa	Feasibility of Using Saliva as a Biospecimen for Breast Cancer Screening in Women	Cell and Molecular Biology	Dr. Leticia Marquez-Magana	g
Claire Davy, Zach Hoch, and Stephen Pehrson	Hunting for Compact Galaxies	Physics and Astronomy	Dr. Ron Marzke	g
Cleopa Omondi, Sayed Miry, and Louie Vermos	Adenosine regulates development during tissue repair	Neurobiology	Dr. Megumi Fuse	g
Criseyda Martinez	Molecular Basis for Host Specificity in Avian Malaria	Microbiology	Dr. Ravinder Sehgal	g
Daniel Hernandez	Optical Tapping and Manipulation	Physics	Dr. Zhigang Chen	g
David Bangor	A maximum principle for the weighted Bergman space	Mathematics	Dr. Alex Schuster	g

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David Newstrom	The Role of Nkx2-1 in the Development of the Ventromedial Hypothalamus	Cell and Molecular Biology	Dr. Carmen R. Domingo	g
Dido Salazar-Torres	Generalized Order and Chain Polytopes	Mathematics	Thomas Bliem and Dr. Federico Ardila	g
Eric Distad	The Importance of the Leadoff Batter	Mathematics	????	g
Eric Douglas Miranda	Graph Operations in Tropical Geometry	Mathematics	Dr. Serkan Hosten	g
Gregory S. Kielian, Di Lan, Xiao Wang, Tao Yu, and Shiyu Zhou	Versatile Networkable Robot	<a href="#">Embedded Electrical and Computer Systems</a>	Dr. Seapahn Megerian	g
Gurdeep Singh, Sanket Parab, Ravi Soni, and Srijita Shrestha	e-TAT (Electronic Teamwork Assessment Tool)	Computer Science	Dr. Dragutin Petkovic, James Wong, and Gary Thompson	g
Henry Hunter	Confirmation of dicistronic gene structures in several Drosophilid species	Cell and Molecular Biology	Dr. Chris Smith	g
Holy Archer, Cagan Sekercioglu, and Chase Mendenhall	EFFECTS OF FOREST FRAGMENTATION ON THE PREVALENCE OF BLOOD PARASITES IN BIRDS OF COSTA RICA	??	Dr. Ravinder Sehgal	g

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Hope M. Gray, N. Pinel, M.N. Ashby, C.B. Walker, H. Urakawa, C.W. Schadt, L. Sayavedra-Soto, and D.A. Stahl	Genomic analysis of the ammonia oxidizing archaeon <i>Nitrosocaldus yellowstonii</i> HL72	Microbiology	Dr. Jose R de la Torre	g
Jacquelynn R. Robinson, Ukina Sanford, and Laura N. Bull	Fic1-Deficient Mouse as a Model of Cholestatic Disease MBRS-RISE Grant: R25-GM59298	Cell & Molecular Biology	Dr. Frank Bayliss	g
Jenny Carlson	Prevalence of Blood Parasites in the Avifauna of Socorro Island , México.	Ecology and Systematics	Dr. Ravinder Sehgal	g
Jia Huang	Intelligent Vehicle Mobility Tcl Script Generator for NS-2 Simulation	Engineering	Dr. Hamid Shahnasser	g
Jinesh Lalan	Cloud Computing for Data Intensive Application	Computer Science	Dr. Dragutin Petkovic, Mike Wong, and Dr Ljubomir Buturovic	g
John Collins	Three Dimensional Reconstruction of knots and knotted particles	Computer Science	Dr. Javier Arsuaga	g
Jon Yaggie	Variety of Finitary C-algebra Homomorphisms	Mathematics	Dr. Joseph Gubel	g
Jonathan Terhorst	Effect of Coal-Fired Power Generation on Visibility in a Nearby National Park	Mathematics	Dr. Serkan Hosten	g

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Juan Castellón		Microbiology		g
Julie S. Miller	The relationship between maternal care and egg cannibalism in a colonial earwig <i>Anisolabis maritima</i> (Dermaptera: Anisolabididae)	Ecology and Systematics	Dr. Andrew G. Zink	g
Juliet Portillo, Rob Scharein, and Dr. Javier Arsuaga	Invariance of the Sign of the Average Space Writhe of Free and Confined Knotted Polygons	Mathematics	Dr. Mariel Vazquez	g
Julieth Lujo		Civil Engineering		g
Katherine Magary		Applied Geosciences		g
Kensuke Yamamoto, Jasmin Kristianto, and Stephanie Wood	S-Nitrosylation of soluble guanylate cyclase	Biochemistry	Dr. Nancy Counts Gerber	g
Lea Lough, Kay Saw, Benjamin Lintner, and Ignacio López-Peña	Effect of the Heme Pocket Environment on the Nitrite Reductase Activity of SW Myoglobin	Biochemistry	Dr. Raymond Esquerra	g
Leah Feigelson		Applied Geosciences		g
Lei Zhang	The significance of second shell interaction in serine protease	Biochemistry	Dr. Teaster Baird, Jr	g

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Marc Sosnick	Efficient Finite Difference-based Sound Synthesis using GPUs	Computer Science	Dr. Bill Hsu	g
Marilyn Walton and Devi Paulvannan	HPV	Biology	Dr. Lily Chen	g
Meghan Bishop	Diet and food webs of the California red-legged frog ( <i>Rana draytonii</i> )	Conservation Biology	Dr. Robert Drewes	g
Michael Yee	Global analysis of histone subtype composition in <i>C. elegans</i> sperm using MudPIT mass spectrometric analysis	Cell and Molecular Biology	Dr. Diana Chu	g
Michelle Krok	The impact of a 5E Conceptual Change Approach to Astronomy Education	Physics & Astronomy	Dr. Adrienne Cool and Dr. Kimberly Tanner	g
Michelle Wray	CD8+ Cell Noncytotoxic Antiviral Response Suppresses HIV-1 Transcription in Primary Monocyte-Derived-Macrophages	Microbiology	Dr. Jay Levy and Dr. Frank Bayliss	g
Mie A. Lansang	Refining the Catalytic Machinery of an Engineered Threonine Protease by Site-directed Mutagenesis	Biochemistry	Dr. Teaster Baird, Jr.	g
Mina Mostafavi		Microbiology		g

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Molly Dodge		Ecology & Systematics		g
Natalie Reeder	Is the Pacific chorus frog carrying a deadly fungus?	Ecology and Systematics	Dr. Vance Vredenburg	g
Nguyen Le	A Lattice Point Enumeration Approach to Partition Identities	Mathematics	Dr. Matthias Beck	g
Niranjana Timilsina	DEVELOPMENT OF AN APPLICATION FOR CELL QUANTIFICATION	Software Engineering	Dr. Kaz Okada	g
Padmavalli Vadali		Embedded Electrical and Computer		g
Polin Yadak and Kazue Matsuyama	Photonic bandgap material with quasi-crystalline symmetry	Physics and Astronomy	Dr. Weining Man	g
Pracheer Sehrawat, Gemma Lee Fu-Sun, Mandar Modgi, and Trevor Blackstone	Academic Bioinformatics Software for Stanford University	Computer Science	Dr. Dragutin Petkovic, Professor Russ Altman, and Mike Wong	g
Ralf Youtz	Toric ideals of small matroids are generated in degree 2	Mathematics	Dr. Serkan Hosten	g

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Raniel R. Alcantara	Exploring Indirect Hydrophobic Interactions In Trypsin	Chemistry and Biochemistry	Dr. Teaster Baird, Jr.	g
Remy Vianney Binder, Seung Jong Lee, and Dr. Wilfred Denetclaw	Ectoderm Cells Express Primary Cilium and Mechanotransduce Calcium and Nitric Oxide Signals	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
Ronald Youtz		Mathematics		g
Sabina Bera and Jared Geibig	CHARACTERIZING CGMP REGULATION DURING ECDYSIS IN MANDUCA SEXTA	Physiology and Behavioral Biology	Dr. Megumi Fuse	g
Sandra Melloy	Inhibition of Nitrification in Ammonia-Oxidizing Archaea	Microbiology	Dr. Jose de la Torre	g
Saurabh Kumar		Electrical Engineering		g
Saurabh Subodh Gupte	Regular Spatio-Temporal Patterns in Multiple Protein Folding Trajectories	Computer Science	Dr. Hui Yang	g
Seung Jong Lee	Dynamic patterns of ectodermal NO and Ca <sup>2+</sup> levels regulate NO signaling activities to the paraxial mesoderm for myogenesis in chicken embryos	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
Sha Huang	Hydrolysis of $\alpha$ -Halo and $\alpha$ -Cyano Pyridinium: A Model for Orotidine 5'-Monophosphate Decarboxylase (OMP Decarboxylase)	Biochemistry	Dr. Weiming Wu	g



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Shani Chapman	Identification of a second site suppressor of cdc24 in Schizosaccharomyces pombe	Cell and Molecular Biology	Dr. Sally Pasion	g
Shankar Yanamandram		Electrical Engineering		g
Shirin M. Usmani and Diana Mars	Low-temperature fabrication of anatase films with tunable thickness and morphology	Chemistry & Biochemistry	Dr. Andrew S. Ichimura	g
Shreyas Kuamr Krishnappa	Comparative reliability analysis of SRAM cell designs in n	Electrical Engineering	Dr. Hamid Mahmog	g
Sindy Liao	Biochemical characterization of styrene oxide isomerase from Pseudomonas putida S12	Biochemistry	Dr. George Gassner	g
Srikar Srinath	The Main Sequence Binary Fraction in Globular Cluster N	Physics & Astronomy	Dr. Adrienne Cool	g
Stephanie M. Wood	Conformational Studies of Soluble Guanylate Cyclase Using Time-Resolved Fluorometry	Biochemistry	Dr. Nancy Counts Gerber	g
Tim Wertz	Interpolation in the Unit Disk	Mathematics	Dr. Alex Schuster	g
Tina Cheng	Role of a pathogenic fungus in the decline of plethodontid salamanders in Mexico and Guatemala	Biology	Dr. Vance Vredenburg	g

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Tingting Sun	Automatic Lesson Planner	Computer Science	Dr. Kaz Okada and Dr. Susan Courey	g
Trevor Gokey	The role of the C42-C58 disulfide bridge in a catalytically active threonine protease variant by molecular dynamics simulation.	Computer Science/Chemistry & Biochemistry	Dr. Anton Guliaev	g
Tyra McCray, Dr. Zeng-Hui He, Hongyun Tong, Xuefeng Sun, Gigi Yen, Huan Jin, Amy Sheldon, Dr. Colin Leasure	Genetic Dissection of UVB Signaling Pathways in Arabidopsis thaliana	Cell and Molecular Biology	Dr. Zheng Hui He	g
Vanessa Aguilera	A Need for New Therapies to Treat Myocardial Infarction through Exploration of Cardioprotective elements found in Bone Marrow Stem cells and IL-15.	Cell and Molecular Biology	Dr. Carmen R. Domingo	g
Yang Zhao	Machine learning based medical image registration	Computer Science	Dr. Kaz Okada	g
Yogita Patil	Remediation of nitroaromatic pollutants by reduction and surface adsorption	Chemistry	Dr. Bruce Manning	g
Zoe Talbot	An exploration of BFACF entropy & biological applications of self-avoiding polygons in the simple cubic lattice	Mathematics	Dr. Titwan Cheung, Dr. Rob Scharein, and Dr. Mariel Vazquez	g
ABDELAZIZ MTAOUA	Photodynamic Therapy of Cancer Diseases Synthesize of Methoxy L-lysylpyropheophorbide-a and Its Zinc Metal	Chemistry	Dr. Uschi Simonis	u

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Abdirahman Adam, Jennifer Smith, Jennifer Tran, Johnny Hoang, Wubet Woldemichael, and Yue Ming Huang	Foundation Designs	Civil Engineering/Geotech	Dr. Timothy D'Orazio	u
Abigail Elisabeth Reiss	Visible-Wavelength Integrated Spectroscopy of Binary Asteroids	Astrophysics	Dr. Adrienne Cool and Dr. Franck Marchis	u
Alex Osorio, Noor Hasan, Patrick Ledesma, Chor Sum Wong, George Khaelilieh, and Hamed Khanzadran	SFSU Timber Truss Bridge	Civil Engineering	Dr. Cheng Chen	u
Alex Pankov	Genomic Signatures Associated with Recurrence in Breast Cancer Patients	Mathematics	Dr. Javier Arsuaga	u
Alexandra Miller	Beam Reflection by Negative Defects in Photonic Lattices	Physics	Dr. Zhigang Chen	u
Andrew McBrian Cole, Kayvon Shakeri, Kevin Gee, and Prasith Sip	Race Car	Mechanical Engineering	Dr. Kwok-Siong Teh	u
Andrew Navarro and Christian Fernandez	Drink Mixer	Mechanical Engineering	Dr. Tom Holton	u
Andy Kwan and Richard Solomon	Hybrid Radio Control Car	Electrical Engineering	Dr. Tom Holton	u

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Anthony Trinh	Synthesis of Trimethyllysine-Substituted Pheophorbide-a Silicon Complex	Biochemistry	Dr. Uschi Simonis	u
Ariel Aveo and Tyson Buis	Ecdysis Triggering Hormone Induces Fictive Pre-ecdysis and Ecdysis in Intermolt Period of Tobacco Hornworm Nervous Systems	Physiology	Dr. Megumi Fuse	u
Armbien Sabillo and Vanja Krneta-Stankic	Spatial Patterning of Muscle Fibers in <i>Xenopus laevis</i>	Biology	Dr. Carmen R. Domingo	u
Billy Hui and Aung Tint	Wireless Temperature Display and Control System	Electrical Engineering	Dr. Tom Holton, Dr. George Anwar, and Dr. Hao Jiang	u
Brandon Leaupepetele and Hieu Vo	Automatic Basketball Returner	Mechanical Engineering	Dr. Dipendra Sinha and Dr. Kwok-Siong Teh	u
Camilla Teng	Role of Ror1 in the Developing Chick Neural Tube	Cell and Molecular Biology	Dr. Laura Burrus	u
Curtis Hilger and Joachim Pedersen	Closed-Loop Feedback Control of a High Frequency Inductive Heating System For Nanomaterial Synthesis	Mechanical Engineering	Dr. Kwok-Siong Teh	u
Damon Robles and Kay Saw	Nitrite Reductase Activity of Glycated Hemoglobin	Chemistry	Dr. Raymond Esquerra	u

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David Canio	Determining the Kinetic Mechanism of Styrene Monooxygenase Reductase	Biochemistry	Dr. George Gassner	u
Diana Mars	Thin films of Iron II Disulfide (Pyrite) for Photovoltaic Applications	Physical Sciences	Dr. Andrew S. Ichimura	u
Farah Soltane and Thomas Pedersen	Mouse	Engineering	Mutlu Ozer and Dr. Tom Holton	u
Fersan Winardja and William Diep	An Externally Controlled Magnetic Disc Screw Device	Electrical Engineering	Dr. Tom Holton, Dr. Kwok-Siong Teh, and Dr. Hao Jiang	u
Heather Gregory and Charlie Bupp	Rapid Identification of Counterfeit Drugs via X-Ray Fluorescence Spectrometry	Chemistry	Dr. Pete Palmer	u
Hezekiel Randolph	USB TestBench	Electrical Engineering	Dr. Tom Holton	u
Ignacio López-Peña and Jasmine Kristianto	Determining the conformational effects caused by CO and YC-1 binding to soluble guanylate cyclase	Biochemistry	Dr. Nancy Gerber and Dr. Raymond Esquerra	u
James O'Connell, Joshua Tse, Colby Lum, Tony Cheung, and Nik Favretto	ENGR697 Geotechnical Group #4	Civil Engineering	Dr. Timothy D'Orazio	u

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Joachim Pedersen	Zinc-catalyzed, Rapid Synthesis of Ultra Long Silica Nanofibers by Inductive Heating	Mechanical engineering	Dr. Kwok-Siong Tu	u
John Laberinto, Cassidy Louie, and Jeff Constantino	Audio Switcher	Electrical Engineering	Dr. Tom Holton and Dr. Hao Jiang	u
John Wudyts, Shifteh Einollahzadeh, Andrew Damele, Jeremy Martinez, Haris Alijagic, Laith Alawad, Hemel Yahya, and Emerson Malca	Powered Lazy Boy	Engineering	Dr. George Anwar and Dr. Dipendra Sinha	u
Jose Emerson Malca Gutierrez and Hemel Yahya	Cardio Vest	Computer Engineering	Larry Klingenberg	u
Kazue Matsuyama and Polin Yadak	Non-Crystalline Photonic BandGap Material Study	Physics and Astronomy	Dr. Weining Man	u
Matt Gallagher	Development of a Broad-Based Assay to Measure Flavin Transfer Efficiency in the Styrene Degradation Pathway	Biochemistry	Dr. George Gassner	u
Matthew Sanchez	Fe analysis of Beer via Hand held XRF using Cation Exchange Resins	Chemistry	Dr. Pete Palmer	u
Megan Montgomery, Phil Swigart, Paul Simpson, Marietta Panningbatan, and Bat Myagmar	Effects of Beta-Blockers on Alpha 1-Adrenergic Receptor Signaling in Mouse Cardiac Myocytes	Biochemistry	Dr. Teaster Baird, Jr	u

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Michael Arce, David Chin, Cianan Duncan, Javier Fernandez, and John Wudyts	Search Rover	Electrical and Mechanical Engineering	Dr. Kwok-Siong Teh	u
Mousa Rebouh	Using the mathematics of tangles to study the mechanism the cell employs to maintain genetic stability	Mathematics	Dr. Mariel Vasquez	u
My-Linh Nguyen, Christine Hunt, Nick Kim, Lindsay Green, Eoin Sheeran, Alvin Piano, James Esoimeme, Jose Preciado, and Julie Leong	Concrete Canoe	Engineering	Dr. Cheng Chen and Dr. Timothy D'Orazio	u
Natalie Davis	Comparison of Deuterium Monoxide and Hydrogen Monoxide Solvent Effects on Different Species of Myoglobin Ligand Rebinding After CO Photolysis	Biochemistry	Dr. Raymond Esquerra	u
Patience Adagba	Analytical protocols for Determination of Phthalates in Toys.	Biochemistry	Dr. Pete Palmer	u
Quynh Nguyen	Serine Protease: Trypsin Variant F41A	Biochemistry	Dr. Teaster Baird, Jr. and Mie Lansang	u
Reza Hashemzade, Alisina Oshaghi, Joey Aduviso, Jose Garcia, Leyla Pirnia, and Cristina Aragon	Woodbridge Design	Civil and Environmental Engineering	Dr. Timothy D'Orazio and Dr. Cheng Chen	u
Rochelle Desamito, Judith Krischke, and Richard Wang	Vertical Axis Wind Turbine	Engineering	Dr. Kwok-Siong Teh	u

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Romica Kerketta	Loss of membrane rafts deregulates intracellular free calcium in C2C12 myoblasts/myotubes	Cell and Molecular Biology	Dr. Wilfred Denetclaw	u
Salim Saikaly, Laith Alawad, and Muataz Hamad	Mechanical Photosensory Patio Umbrella	Mechanical and Electrical Engineering	Larry Klingenberg and Dr. Tom Holton	u
Samuel Fitzer, Chris O'Gara, Chris Pioli, Jonathon Tai, Marissa Silvas, John Crain, Julian Jaramillo, Nadia Berumen, Lester Aquino, and Cindy Lu	National Student Steel Bridge Competition	Civil Engineering	Dr. Cheng Chen	u
Sayeeda P. Najibi	Introducing Novel Substrate Selectivity into Trypsin through Redesign	Biochemistry	Dr. Teaster Baird, Jr	u
Shawn Yee	Project R.A.M.T.A.P.	Computer Engineering	??	u
Shi Choong	Protein dynamics using computational chemistry approach. Structural features of the wild type serine protease	Chemistry and Biochemistry	Dr. Anton Guliaev	u
Shivalee Gujarathi and Seung Jong Lee	FM 4-64 dye shows dynamic changes in membrane potential and cellular death in the ectoderm cells of Chick embryos	Developmental Biology	Dr. Wilfred Denetclaw	u
Steven Chua, Gloria Fernandez, David Dip, Chris Kekicheff, and Diana Loie	BioRadical BioSand Filter: An Improved Performance Delivery System for Safe Drinking Water	Civil Engineering	Dr. John Dracup	u



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Terrence O'Brien	Aryl-Heteroaryl Ureas (AHUs) Based on 4-Aminoquinaldine as Inhibitors of the Insulin-like Growth Factor Receptor	Biochemistry	Dr. Marc Anderson	u
Tim O'Keefe, Brock Roland, and Michael McIntyre	MIDI Actuated Robotic Vibraphone	Electrical and Mechanical Engineering	Dr. Tom Holton and Dr. Ed Cheng	u
Timothy Sullivan, Nicolas Dibenedetto, and Gandiva Moss	Switchable V.O./V.C. Prosthetic Hand	Mechanical Engineering	Dr. Kwok-Siong Teh	u
Tony Tam, Shiu Mak, Kakiu Ching, Ailin Liu, Jiayi Fu, Nicole Salde, and Shu Feng Yu	2010 National Timber Bridge Competition	Civil Engineering	Dr. Cheng Chen	u
Van Pham	Using a Yeast Screening to identify SITRT inhibitors from marine-derived actinomycetes	Chemistry and Biochemistry	Dr. Taro Amagata	u
Viviana Cervantes	A contribution to the fight against cancer: Synthesis and characterization of Trimethyllysine-substituted In(III)-Pheophorbide-a in the quest for a superior Photodynamic Therapy photosensitizer	Biochemistry	Dr. Uschi Simonis	u
Yadiel Kinfu	Increased Oxidative Stress In People with Diabetes: The effect of glycation on the kinetics of the adult human hemoglobin	Biochemistry	Dr. Raymond Esquerra	u