

Department	PI name	Lab name	Research Interest	Subspecialties	Website link	Main Type of Work	RA Preferences	RA Requirements
Chemistry/Biochemistry	Patrick Farmer	Farmer Research Group	Biochemistry/Inorganic	Flavonol Complexes, Melanin/Melanoma, Biocoordination of HNO.	<a href="http://pfarmer.squarespace.com/">http://pfarmer.squarespace.com/</a>	Primary (Bench)		
Chemistry/Biochemistry	Darrin J. Bellert		Physical	Anion photodissociation spectroscopy	<a href="https://www.baylor.edu/chemistry/index.php?id=69967">https://www.baylor.edu/chemistry/index.php?id=69967</a>	Primary (Bench)		
Chemistry/Biochemistry	Kevin Chambliss		Analytical & Environmental Chemistry	Chemical Separations and Analysis	<a href="https://www.baylor.edu/chemistry/index.php?id=72077">https://www.baylor.edu/chemistry/index.php?id=72077</a>	Primary (Bench)		
Chemistry/Biochemistry	Elyssia Gallagher	Gallagher Group	Analytical/Biochemistry	Glycoproteins	<a href="https://sites.baylor.edu/gallaghergroup/">https://sites.baylor.edu/gallaghergroup/</a>	Primary (Bench)		
Chemistry/Biochemistry	Charles Garner	Garner Research Group	Organic	Improvement of organic compound synthesis and analysis	<a href="http://sites.baylor.edu/garnergroupp/">http://sites.baylor.edu/garnergroupp/</a>	Primary (Bench)		
Chemistry/Biochemistry	Stephen Gipson		Analytical	Organnometallic Electrochemistry	<a href="https://www.baylor.edu/chemistry/index.php?id=72085">https://www.baylor.edu/chemistry/index.php?id=72085</a>	Primary (Bench)		
Chemistry/Biochemistry	Jesse Jones		Organic	Organic compound synthesis	<a href="https://www.baylor.edu/chemistry/index.php?id=72099">https://www.baylor.edu/chemistry/index.php?id=72099</a>	Primary (Bench)		
Chemistry/Biochemistry	Robert Kane	Center for Drug Discovery	Organic	Drug Discovery and Pharmacology	<a href="https://www.baylor.edu/chemistry/index.php?id=75251">https://www.baylor.edu/chemistry/index.php?id=75251</a>	Primary (Bench)		
Chemistry/Biochemistry	Sung Joon Kim	The Kim Group	Biochemistry/Physical	Structure and chemical composition analysis of complex biological systems using combined solid-state NMR and MS	<a href="http://sites.baylor.edu/kimgroup/">http://sites.baylor.edu/kimgroup/</a>	Primary (Bench)		
Chemistry/Biochemistry	Kevin Klausmeyer		Inorganic	Synthetic organometallic/ coordination chemistry, supramolecular chemistry, metal carbonyl chemistry	<a href="https://www.baylor.edu/chemistry/index.php?id=72104">https://www.baylor.edu/chemistry/index.php?id=72104</a>	Primary (Bench)		
Chemistry/Biochemistry	Carlos Manzanares		Physical	Study of highly excited vibrational states of polyatomic molecules to obtain information about molecular structure, vibrational energy levels, and intramolecular dynamics	<a href="https://www.baylor.edu/chemistry/index.php?id=72106">https://www.baylor.edu/chemistry/index.php?id=72106</a>	Primary (Bench)		
Chemistry/Biochemistry	Caleb Martin	Martin Research Group	Inorganic/Organic	Synthesis and properties of organoboron compounds	<a href="http://sites.baylor.edu/caleb_d_martin/">http://sites.baylor.edu/caleb_d_martin/</a>	Primary (Bench)		
Chemistry/Biochemistry	Kevin Pinney	Pinney Research Group	Organic	Salient features of small molecule molecular recognition of selected bioreceptors including proteins and enzymes	<a href="https://sites.baylor.edu/pinneygroup/">https://sites.baylor.edu/pinneygroup/</a>	Primary (Bench)		
Chemistry/Biochemistry	Daniel Romo	Romo Group	Organic	Chemistry and Biology of natural products, enduring leads for basic cell biology studies and drug development	<a href="http://www.danielromogroup.com/">http://www.danielromogroup.com/</a>	Primary (Bench)		
Chemistry/Biochemistry	Bryan Shaw	Shaw laboratory	Analytical/Biochemistry	Mix of bio-inorganic chemistry, protein biophysics—with a focus on protein misfolding and amyotrophic lateral sclerosis—and a dash of medicinal chemistry and proteomics	<a href="http://en.shawlaboratory.com/">http://en.shawlaboratory.com/</a>	Primary (Bench)		
Chemistry/Biochemistry	Kevin Shuford	Shuford Group	Physical	Computational research group that specializes in modeling and simulation of interdisciplinary problems spanning chemistry, physics, biology, and materials science	<a href="http://sites.baylor.edu/kevin_shuford/">http://sites.baylor.edu/kevin_shuford/</a>	Primary (Bench)		
Chemistry/Biochemistry	Touradj Solouki	Solouki Lab	Analytical	Spectrometry, kinetics	<a href="http://sites.baylor.edu/soloukilabs/">http://sites.baylor.edu/soloukilabs/</a>	Primary (Bench)		
Chemistry/Biochemistry	Michael Trakselis	Trakselis Laboratory	Biochemistry	DNA replication and repair	<a href="http://sites.baylor.edu/trakselisgroup/">http://sites.baylor.edu/trakselisgroup/</a>	Primary (Bench)		
Chemistry/Biochemistry	Mary Lynn Trawick	Trawick Group	Biochemistry	Cancer, enzymes	<a href="http://sites.baylor.edu/trawickgroup/">http://sites.baylor.edu/trawickgroup/</a>	Primary (Bench)		
Chemistry/Biochemistry	Sascha Usenko	Usenko Lab	Analytical	Environmental chemistry	<a href="https://blogs.baylor.edu/sascha_usenko/">https://blogs.baylor.edu/sascha_usenko/</a>	Primary (Bench)		

Chemistry/Biochemistry	John Wood	Wood Research Group	Organic	Cancer drugs	<a href="http://www.johnwoodgroup.com/">http://www.johnwoodgroup.com/</a>	Primary (Bench)		
Psychology/Neuroscience	Sara Dolan	Substance Abuse Research Laboratory	Clinical Psychology/Behavioral Neuroscience	Substance abuse, impulse-control disorders	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946792">https://www.baylor.edu/psychologyneuroscience/index.php?id=946792</a>	Clinical		
Psychology/Neuroscience	Gary Elkins	Mind-Body Research Laboratory	Clinical Psychology/Experimental Psychology	Clinical hypnosis, mind-body interventions in women's health care	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946793">https://www.baylor.edu/psychologyneuroscience/index.php?id=946793</a>	Clinical		
Psychology/Neuroscience	Thomas Fergus	Anxiety and Related Disorders Laboratory	Clinical Psychology	Anxiety, OCD, metacognition	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946794">https://www.baylor.edu/psychologyneuroscience/index.php?id=946794</a>	Clinical		
Psychology/Neuroscience	Christine Limbers	Pediatric Psychology Laboratory	Clinical Psychology	Neurocognitive outcomes of chronic health conditions	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946804">https://www.baylor.edu/psychologyneuroscience/index.php?id=946804</a>	Clinical		
Psychology/Neuroscience	Keith Sanford	Couple Conflict Research Laboratory	Clinical Psychology	Interpersonal relationships	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946812">https://www.baylor.edu/psychologyneuroscience/index.php?id=946812</a>	Clinical		
Psychology/Neuroscience	Shawn Latendresse	Biopsychosocial Mechanisms of Development Lab	Developmental Psychology	Developmental psychopathology, socialization, behavioral genetics	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946802">https://www.baylor.edu/psychologyneuroscience/index.php?id=946802</a>	Clinical		
Psychology/Neuroscience	Charles Weaver	Cognition Research Laboratory	Experimental Psychology	Language, decision making	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946789">https://www.baylor.edu/psychologyneuroscience/index.php?id=946789</a>	Clinical		
Psychology/Neuroscience	Wade Rowatt	Social-Personality Research Laboratory	Social Psychology	Personality, deception, psychology of religion, humility	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946810">https://www.baylor.edu/psychologyneuroscience/index.php?id=946810</a>	Clinical		
Psychology/Neuroscience	Jo-Ann Tsang	The Positive Psychology Laboratory	Social Psychology	Positive emotion, psychology of religion, comprehensive psychological testing, humility, gratitude	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946815">https://www.baylor.edu/psychologyneuroscience/index.php?id=946815</a>	Clinical	High level of aptitude shown in PSY 1305 preferred	
Psychology/Neuroscience	Bradley Keele	Neurophysiology Research Laboratory	Behavioral Neuroscience	Neuron recording, physiology of emotion	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946797">https://www.baylor.edu/psychologyneuroscience/index.php?id=946797</a>	Translational		
Psychology/Neuroscience	Joaquin Lugo	Developmental Neuroscience Laboratory	Behavioral Neuroscience	Developmental psychology, neurological disorders	<a href="http://www.lugolab.com/">http://www.lugolab.com/</a>	Translational		
Psychology/Neuroscience	Michael Scullin	Sleep Neuroscience and Cognition (SNAC) Laboratory	Behavioral Neuroscience	Sleep, dreaming, prospective memory	<a href="http://sites.baylor.edu/scullin/">http://sites.baylor.edu/scullin/</a>	Clinical	NSC 1306 and/or PSY 1305 (past or concurrent) preferred. No major or classification requirement	Work for 6 months to a year or at least one summer. Time requirement: approx. 4-10 hours / week
Psychology/Neuroscience	Alex Beaujean	Baylor Psychometric Laboratory	Quantitative Psychology	Psychometrics, educational psychology	<a href="http://blogs.baylor.edu/psychometric_lab/">http://blogs.baylor.edu/psychometric_lab/</a>	Clinical		
Psychology/Neuroscience	Melanie Sekeres		Behavioral and Clinical Neuroscience	Sleep, memory formation and consolidation	<a href="https://www.baylor.edu/psychologyneuroscience/index.php?id=946814">https://www.baylor.edu/psychologyneuroscience/index.php?id=946814</a>	Translational and Clinical		
Environmental Science	George Cobb		Air Quality, Ecotoxicology & Environmental Toxicology, Environmental Chemistry, Environmental Health	development of forensic analytical techniques to assess contaminant presence and movement	<a href="https://www.baylor.edu/environmentalscience/index.php?id=83307">https://www.baylor.edu/environmentalscience/index.php?id=83307</a>	Bench		
Environmental Science	Rebecca Sheesley	Sheesley Lab	Air Quality, Atmospheric Aerosols, Environmental Chemistry, Environmental Health	understanding local to global impacts of atmospheric particulate matter	<a href="https://blogs.baylor.edu/rebecca_sheesley/">https://blogs.baylor.edu/rebecca_sheesley/</a>	Bench		

Environmental Science	Sascha Usenko	Usenko Laboratory	Air Quality, Environmental Chemistry, Environmental Health	anthropogenic contaminants in aquatic ecosystems; persistent, bioaccumulative, and toxic chemicals in the environment; environmental forensic chemistry to identify sources of contaminants using unique chemical fingerprints	<a href="https://blogs.baylor.edu/sascha_usenko/">https://blogs.baylor.edu/sascha_usenko/</a>	Bench		
Environmental Science	Bryan Brooks		Ecotoxicology & Environmental Toxicology, Ecosystem Management & Invasive Species, Environmental Health, Harmful Algae Blooms	Anthropogenic activities and stressors across levels of biological organization, particularly in rapidly urbanizing regions	<a href="https://www.baylor.edu/environmentalscience/index.php?id=56293">https://www.baylor.edu/environmentalscience/index.php?id=56293</a>	Bench		
Environmental Science	Erica Bruce	Bruce Lab	Ecotoxicology & Environmental Toxicology, Environmental Health	answering a variety of mechanistic toxicological questions relating to insult, injury, and healing of human systems	<a href="http://blogs.baylor.edu/erica_bruce/">http://blogs.baylor.edu/erica_bruce/</a>	Bench		
Environmental Science	Ramon Lavado		Ecotoxicology & Environmental Toxicology, Environmental Health	mechanistical insights in the chemical modifications made by an aquatic organism on a chemical compound and development of bioassays for detecting pollutants in the environment	<a href="https://www.baylor.edu/environmentalscience/index.php?id=934724">https://www.baylor.edu/environmentalscience/index.php?id=934724</a>	Bench		
Environmental Science	Cole Matson		Ecotoxicology & Environmental Toxicology, Environmental Health	the genetic and developmental impacts of environmental contaminants on fish, with a particular interest in how environmental gradients affect the toxicity of nanomaterials and polycyclic aromatic hydrocarbons	<a href="https://www.baylor.edu/environmentalscience/index.php?id=85388">https://www.baylor.edu/environmentalscience/index.php?id=85388</a>	Bench		
Environmental Science	Susan Bratton		Ecosystem Management & Invasive Species, Environmental Ethics & History	Conservation ecology and environmental ethics	<a href="https://www.baylor.edu/environmentalscience/index.php?id=56292">https://www.baylor.edu/environmentalscience/index.php?id=56292</a>	Bench		
Environmental Science	Robert Doyle	*** See Biology section ***	Ecosystem Management & Invasive Species	*** See Biology section ***	*** See Biology section ***	*** See Biology section ***	*** See Biology section ***	*** See Biology section ***
Environmental Science	Joseph White	*** See Biology section ***	Ecosystem Management & Invasive Species	*** See Biology section ***	*** See Biology section ***	*** See Biology section ***	*** See Biology section ***	*** See Biology section ***
Environmental Science	Kevin Chambliss	*** See Chemistry section***	Environmental Chemistry	*** See Chemistry section***	*** See Chemistry section***	*** See Chemistry section***	*** See Chemistry section***	*** See Chemistry section***
Environmental Science	Joe Yelderman	*** See Geosciences section ***	Environmental Health	*** See Geosciences section ***	*** See Geosciences section ***	*** See Geosciences section ***	*** See Geosciences section ***	*** See Geosciences section ***
Anthropology	Katie Binetti		Neogene hominid paleontology and paleoecology, paleocommunities, faunal analysis, vertebrate taphonomy, East Africa		<a href="https://www.baylor.edu/anthropology/index.php?id=80298">https://www.baylor.edu/anthropology/index.php?id=80298</a>	Field		
Anthropology	Colleen Zori		Ancient empires; human-environment interactions; craft production; organization of labor; archaeometallurgy; ceramic analysis; warfare and conflict; GIS and network analysis; the Andes; the Inka		<a href="https://www.baylor.edu/anthropology/index.php?id=928229">https://www.baylor.edu/anthropology/index.php?id=928229</a>			
Anthropology	Alan Schultz		Cultural meaning, cultural determinants of health, chronic stress, social		<a href="https://www.baylor.edu/anthropology/index.php?id=867185">https://www.baylor.edu/anthropology/index.php?id=867185</a>	Field		

			status, social inequity, lowland Bolivia					
Anthropology	Carol Macaulay-Jameson		Archaeology and history of Texas and New Mexico, GIS applications in archaeological and historical research		<a href="https://www.baylor.edu/anthropology/index.php?id=80301">https://www.baylor.edu/anthropology/index.php?id=80301</a>	Field, GIS		
Anthropology	Jim Huggins		Bloodstain Pattern Analysis, Shooting Incident Reconstruction, and Crime Scene Reconstruction and Identifying the remains of Undocumented Border Crossers		<a href="https://www.baylor.edu/anthropology/index.php?id=80303">https://www.baylor.edu/anthropology/index.php?id=80303</a>			
Anthropology	Julie Hoggarth		Collapse and regeneration of complex societies, human adaptation and responses to climate change, high-resolution AMS 14C dating, quantitative methods, settlement patterns, cultural heritage and tourism in Belize, Mesoamerican archaeology		<a href="https://www.baylor.edu/anthropology/index.php?id=924939">https://www.baylor.edu/anthropology/index.php?id=924939</a>	Field		
Anthropology	Joseph Ferraro		Human behavior and ecology, zooarchaeology, paleoanthropology, African prehistory, vertebrate paleontology		<a href="https://www.baylor.edu/anthropology/index.php?id=80300">https://www.baylor.edu/anthropology/index.php?id=80300</a>	Field		
Anthropology	Lori Baker		Forensic anthropology		<a href="https://www.baylor.edu/anthropology/index.php?id=80297">https://www.baylor.edu/anthropology/index.php?id=80297</a>			
Anthropology	Sara Alexander		Third World development process, livelihood security and vulnerability, food security, human dimensions of climate change, ecotourism, natural resource management, and the HIV/AIDS pandemic		<a href="https://www.baylor.edu/anthropology/index.php?id=80295">https://www.baylor.edu/anthropology/index.php?id=80295</a>	Field		
Anthropology	Garrett Cook		Religion and Expressive Culture, Ethnography/Social Anthropology, Maya Culture and Community		<a href="https://www.baylor.edu/anthropology/index.php?id=80299">https://www.baylor.edu/anthropology/index.php?id=80299</a>	Field		
Sociology	Carson Mencken		Banking Industry, Capital for Local Businesses, Criminology, Paranormal Activity in America, Religion		<a href="https://www.baylor.edu/sociology/index.php?id=67932">https://www.baylor.edu/sociology/index.php?id=67932</a>			
Sociology	Kevin Dougherty		Religion Affiliation, Religious Participation, Racial Diversity in Congregations, Congregational Growth and Decline, and Impact of Religion on Other Realms		<a href="https://www.baylor.edu/sociology/index.php?id=67925">https://www.baylor.edu/sociology/index.php?id=67925</a>			

			of Social Life, Innovative Teaching					
Sociology	Matthew Andersson		Health Inequality, Educational and Socioeconomic Inequalities in Mental and Physical Well-Being, Childhood/Adolescent/Adult Factors, Health Behaviors, Chronic Disease Epidemiology, Personal Social Networks, Informal Elder Caregiving, Comparative Parenthood, Parent-Child Emotional Bonds, Public Attitudes and Reactions Towards Mental Illness		<a href="https://www.baylor.edu/sociology/index.php?id=932090">https://www.baylor.edu/sociology/index.php?id=932090</a>			
Sociology	Matt Bradshaw		Population Health, Health and Well-Being, Connection of Religion and Health, Interplay Between Genetic and Environmental Influences on Health and Aging, Biology of Religious Practices and Experiences		<a href="https://www.baylor.edu/sociology/index.php?id=97977">https://www.baylor.edu/sociology/index.php?id=97977</a>			
Sociology	Robyn Driskell		Community, Demographic Trends, and Race and Ethnic Studies	Chief of Staff to President and Vice President of Board Relations at Baylor University	<a href="https://www.baylor.edu/sociology/index.php?id=67926">https://www.baylor.edu/sociology/index.php?id=67926</a>			
Sociology	Paul Froese		Sociology of Meaning, Religion, Comparative Historical Sociology, Political Sociology and Ideology	Research Fellow for Institute for Studies of Religion	<a href="https://www.baylor.edu/sociology/index.php?id=67927">https://www.baylor.edu/sociology/index.php?id=67927</a>			
Sociology	Kyle Irwin		Social Psychology, Trust, Norms, Collective Action, Environmental Cooperative	Research Assistant Professor	<a href="https://www.baylor.edu/sociology/index.php?id=67937">https://www.baylor.edu/sociology/index.php?id=67937</a>			
Sociology	Diana Kendall		Social Differentiation/Inequality and Health Care in the Twenty-First Century		<a href="https://www.baylor.edu/sociology/index.php?id=67931">https://www.baylor.edu/sociology/index.php?id=67931</a>			
Sociology	Kathryn Mueller		Women in Society		<a href="https://www.baylor.edu/sociology/index.php?id=67933">https://www.baylor.edu/sociology/index.php?id=67933</a>			
Sociology	Jerry Park		Sociological Study of Religion, Race, Identity, Culture and Civic Participation, Role of Religion and Entrepreneurial Work Behavior, Religion and Racial Stratification Attitudes	Affiliate Fellow of Baylor Institute for Studies of Religion	<a href="https://www.baylor.edu/sociology/index.php?id=67934">https://www.baylor.edu/sociology/index.php?id=67934</a>			
Sociology	Chris Pieper		Moral Activism, Religious Social Movements of the 20th Century, Social Theory, Political Sociology, Religion, Media Culture		<a href="https://www.baylor.edu/sociology/index.php?id=84451">https://www.baylor.edu/sociology/index.php?id=84451</a>			

Sociology	Charles Tolbert		Social Stratification, Social Demography, Rural Sociology, Quantitative Applications		<a href="https://www.baylor.edu/sociology/index.php?id=67923">https://www.baylor.edu/sociology/index.php?id=67923</a>			
Sociology	Jeremy Uecker		Religion, Family, Sexual Behavior, Mental Health, Transition to Adulthood		<a href="https://www.baylor.edu/sociology/index.php?id=88792">https://www.baylor.edu/sociology/index.php?id=88792</a>			
Sociology	Lindsay Wilkinson		Medical Sociology, Social Stratification and Health, Aging and the Life Course, Quantitative Methods		<a href="https://www.baylor.edu/sociology/index.php?id=865148">https://www.baylor.edu/sociology/index.php?id=865148</a>			
Biology	Tamarah Adair	M&M BEARS and BEARS in the SEA	Molecular and Microbiology		<a href="https://seaphages.org/">https://seaphages.org/</a>	Bench		
Biology	Robert Adams		Evolutionary studies of speciation					
Biology	Kevin Gutzwiller		broad-scale human influences on natural systems and to provide a scientific basis for managing the influences in support of biodiversity, ecosystem services, and human societies		<a href="https://sites.baylor.edu/kevin_gutzwiller/">https://sites.baylor.edu/kevin_gutzwiller/</a>	Field	Mainly looking for graduate students	
Biology	Walter Holmes	Herbarium	Systematic Biology		<a href="https://www.baylor.edu/student_employment/index.php?id=931009&amp;item_id=3345315">https://www.baylor.edu/student_employment/index.php?id=931009&amp;item_id=3345315</a>		Offering paid lab assistant position	
Biology	Robert Doyle Jacqueline Duke Marty Harvill Sanghoon Kang Ryan King Owen Lind Joseph White	CRASR (The Center for Reservoir and Aquatic Systems Research)	Aquatic Resources		<a href="https://www.baylor.edu/crasr/index.php?id=79027">https://www.baylor.edu/crasr/index.php?id=79027</a>	Field		
Biology	Bessie Kebaara		Gene Expression			Bench		
Biology	Ryan King	Aquatic Ecology Lab	Aquatic Ecology		<a href="https://www.baylor.edu/aquaticlab/index.php?id=45690">https://www.baylor.edu/aquaticlab/index.php?id=45690</a>	Field		
Biology	Myeongwoo Lee		Cell and Developmental Biology			Bench		
Biology	Jason Pitts		Arthropod Disease Vectors			Bench		
Biology	Thad Scott	Scott Limnology Lab	Limnology Biogeochemistry Water Quality		<a href="https://www.facebook.com/scottbiogeochemistrylab/">https://www.facebook.com/scottbiogeochemistrylab/</a>			
Biology	Cheolho Sim	The Sim's Lab	Vector Biology of Human Pathogens	Functional genomics studies of arthropod vectors of human pathogens  Diapause research on West Nile Virus vector, especially the mosquito Culex pipiens				
Biology	Joseph (Joe) Taube	The Taube Lab	Cancer Research	Epigenetics and its relation to tumor formation and metastasis  Histone Modifications, microRNA's, long non-coding RNAs and small molecule inhibitors	<a href="https://sites.baylor.edu/taubelab/">https://sites.baylor.edu/taubelab/</a>	Primary		Undergraduates interested in research should submit a letter of recommendation from a Biology faculty member. A pre-research period, during which the student learns the

								scientific background and techniques for the lab, is also required. More details can be found on the website under "Prospective Students".
Biology	Mark Taylor		Aquatic Ecology, Innovative Teaching Techniques for Biology					
Biology	Stephen Trumble	The Trumble Laboratory  (also known as the LEAP (Laboratory of Ecological & Adaptational Physiology) lab)	Ecological and Adaptational Physiology	Skeletal muscle physiology, Physiological ecology, and Pathophysiology and health indices  Energetics and Lipid biochemistry  Diving mammals and Digestive processes in carnivores	<a href="http://sites.baylor.edu/trumblelab/">http://sites.baylor.edu/trumblelab/</a>	Primary/Secondary	Graduate students	
Biology	Joseph White	(Graduate Students) The Institute for Ecological, Earth, and Environmental Sciences (TIE3S)	Ecosystem ecology and modeling, remote sensing  Geochemistry, Climatology, Geoinformatics (GIS)		<a href="https://www.baylor.edu/TIEEES/">https://www.baylor.edu/TIEEES/</a>	Primary/Secondary	Graduate students	
Mathematics	Manfred Dugas	The Dugas Group	Research in algebra, especially in the theory of Abelian groups, rings and modules.		<a href="http://bearspace.baylor.edu/Manfred_Dugas/www/">http://bearspace.baylor.edu/Manfred_Dugas/www/</a>		Graduate students	
Mathematics	Daniel Herden	The Herden Group	Applications of set theory to the other fields of mathematics. His research work is inspired by Shelah's proof of the undecidability of the Whitehead problem.		<a href="http://sites.baylor.edu/daniel_herden/">http://sites.baylor.edu/daniel_herden/</a>		Graduate students	
Mathematics	Fritz Gesztesy	The Gesztesy Group	Applications of operator and spectral theory to a variety of problems connected to mathematical physics.		<a href="https://www.baylor.edu/content/services/document.php/277723.pdf">https://www.baylor.edu/content/services/document.php/277723.pdf</a>			
Mathematics	Paul Hagelstein	The Hagelstein Group	Harmonic Analysis		<a href="http://sites.baylor.edu/paul_hagelstein/">http://sites.baylor.edu/paul_hagelstein/</a>		Undergraduates and Graduate students	
Mathematics	Lance Littlejohn	The Littlejohn Group	Orthogonal polynomials, inequalities, spectral theory of differential operators and special functions.		Department Chair- <a href="https://www.baylor.edu/content/services/document.php/291902.pdf">https://www.baylor.edu/content/services/document.php/291902.pdf</a>		Graduate students	
Mathematics	Constanze Liaw	The Liaw Group	Harmonic and Complex Analysis, Spectral Theory, Functional Models and Mathematical Physics.		<a href="http://sites.baylor.edu/constanze_liaw/">http://sites.baylor.edu/constanze_liaw/</a>		Graduate students	
Mathematics	Tao Mei	The Mei Group	• Functional analysis/Harmonic Analysis; e.g. Operator (Matrix)-Valued function				Undergraduates and Graduate students	

			spaces, Fourier multipliers on nonabelian discrete groups/von Neumann algebras, Semigroups of operators, Noncommutative $L_p$ spaces/Operator spaces. • Stochastic processes; e.g. Maximal inequalities for martingales, Probability method of solving problem in analysis, Noncommutative Martingales.					
Mathematics	Brian Simanek	The Simanek Group	Orthogonal polynomials, potential theory, and spectral theory.		<a href="http://sites.baylor.edu/brian_simanek/">http://sites.baylor.edu/brian_simanek/</a>		Highly interested in teaching both undergraduates and graduate students	
Mathematics	John Davis	The Davis Group	Ordinary and partial differential equations, interplay between discrete and continuous (hybrid) dynamical systems, nonlinear systems theory, adaptive control theory, applied mathematics.		<a href="http://blogs.baylor.edu/john_m_davis/">http://blogs.baylor.edu/john_m_davis/</a>			
Mathematics	Jameson Graber	The Graber Group	Nonlinear partial differential equations, with a particular focus on problems related to control theory and optimization.		<a href="https://sites.google.com/site/pjamesongraber/home">https://sites.google.com/site/pjamesongraber/home</a>			
Mathematics	Johnny Henderson	The Henderson Group	Boundary value problems for ordinary differential equations, finite difference equations, and dynamic equations on time scales.		Distinguished Professor- Fellow of American Mathematical Society <a href="http://blogs.baylor.edu/johnnyhenderson/">http://blogs.baylor.edu/johnnyhenderson/</a>		Undergraduates and Graduate students	
Mathematics	Qin "Tim" Sheng	The Sheng Group	Computational mathematics - splitting and adaptive methods for solving singular partial differential equations		His projects have been supported by the United States Air Force Research Laboratory and Department of Defense. <a href="http://sites.baylor.edu/qin_sheng/">http://sites.baylor.edu/qin_sheng/</a>			
Mathematics	Klaus Kirsten	The Kirsten Group	Mathematical physics - spectral theory of partial differential operators, its applications in quantum field theory and its ramifications in differential geometry.		<a href="http://blogs.baylor.edu/klaus_kirsten/">http://blogs.baylor.edu/klaus_kirsten/</a>		Undergraduates and Graduate students	
Mathematics	Jon Harrison	The Harrison Group	Mathematical physics - quantum mechanics on graphs and applications of group theory in quantum chaos.		<a href="http://sites.baylor.edu/jon_harrison/">http://sites.baylor.edu/jon_harrison/</a>			
Mathematics	Ron Morgan	The Morgan Group	Numerical Analysis		<a href="http://sites.baylor.edu/ronald_morgan/">http://sites.baylor.edu/ronald_morgan/</a>			
Mathematics	Robert Kirby	The Kirby Group	Finite elements for partial differential equations,		<a href="http://sites.baylor.edu/robert_kirby/">http://sites.baylor.edu/robert_kirby/</a>			



			preconditioners for multiphysics problems, mathematical software, multicore computing.					
Mathematics	Markus Hunziker	The Hunziker Group	Representation theory of Lie groups and related algebraic geometry and combinatorics.				Graduate students	
Mathematics	Mark Sepanski	The Sepanski Group	Lie theory - representation theory of real reductive Lie groups.				Graduate students	
Mathematics	Ronald Stanke	The Stanke Group	Representation theory of Lie groups and related harmonic analysis.		<a href="http://blogs.baylor.edu/ronaldstanke/">http://blogs.baylor.edu/ronaldstanke/</a>			
Mathematics	Brian Raines	The Raines Group	Topology of pathological spaces that arise in dynamical systems and the applications of topology to non-deterministic dynamical systems that arise in mathematical economics		<a href="http://blogs.baylor.edu/brianraines/">http://blogs.baylor.edu/brianraines/</a>		Graduate students	
Mathematics	David Ryden	The Ryden Group	Continuum theory, with periodic excursions into related areas such as dynamical systems.		<a href="http://blogs.baylor.edu/david_ryden/">http://blogs.baylor.edu/david_ryden/</a>		Graduate students	
Geosciences	Stacy Atchley		Sequence stratigraphy and petroleum geology	Recent publication: Atchley, S.C., Nordt, L.C., Dworkin, S.I., Ramezani, J., Parker, W.G., Ash, S.R., and Bowring, S.A., 2013, A linkage among Pangean tectonism, cyclic alluviation, climate change and biologic turnover in the Late Triassic: the record from the Chinle Formation, southwestern United States. Journal of Sedimentary Research, v. 83, p. 146-1161.				
Geosciences	Peter Allen		Urban environmental geology, engineering geology, and hydrology. Research questions are impact of urbanization on stream channels; erosion degradation and aggradation of streams. Stream-groundwater interactions and water budget models. Recharging mechanisms and bypass flow in clay shale terrain. As well as, field techniques for assessment of geological processes as sedimentation and erosion.	Allen, P.M., Capello, S., Coffman, D., and Arnold, J., 2010. Comparison of Submerged Jet testing to Field Rates in Clay and Sand Channels, Blackland Prairie, Ecosystem, Texas. (In) Proceedings of the 4th Joint Federal Interagency Hydrologic Modeling Conference and the 9th Federal Interagency Sedimentation Conference, Las Vegas NV, June 27-July 1st, 2010.				
Geosciences	Kenney Befus		Volcanology, igneous petrology, mineralogy	Befus, K.S., Manga, M., Gardner, J.E., Williams, M., Ascent and emplacement dynamics of obsidian lavas inferred from microlites textures: Bulletin of Volcanology, in review.	<a href="https://sites.baylor.edu/kenneth_befus/">https://sites.baylor.edu/kenneth_befus/</a>			
Geosciences	Rena Bonem		Paleoecology, invertebrate paleontology, modern	Farlow, James O., Karl T. Bates, Rena M. Bonem, Benjamin F. Dattilo, Peter L. Falkingham, Raymond Gildner, Jerry Jacene, Glen J. Kuban,				

			carbonates. Especially the development of coral reefs.	Anthony J. Martin, Mike O'Brien, James White, 2015, Dinosaur Footprints from the Glen Rose Formation (Paluxy River, Dinosaur Valley State Park, Somervell County, Texas), in Chistopher Noto , ed., Early and Mid Cretaceous Archosaur Localities of North - Central Texas: Guidebook for the field trip held October 13, 2015 in conjunction with the 75th Annual Meeting of the Society of Vertebrate Paleontology in Dallas, Texas, p. 14-37.				
Geosciences	Vincent Cronin		Structural geology, neotectonics/ paleoseismology, plate kinematics, engineeringn geology, and geoethics. Research includes identification of potentially active faults, structural lineament analyses, plate kinematics, earthquake relocation analyses, and work on applied professional and scientific ethics in the geosciences. Working primarily on the recognition and characterization of active faults.		<a href="https://CroninProjects.org/Vince/">https://CroninProjects.org/Vince/</a>			
Geosciences	Stephen Driese		Paleopedology, clastic sedimentology, and environmental sedimentology. His research studies paleoclimate and landscape.	Shunk, A.J., Driese, S.G., Farlow, J.O., Zavada, M., and Zobaa, M.K., 2009, Late Neogene paleoclimate and paleoenvironment reconstructions from the Pipe Creek Sinkhole, Indiana, USA: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 274, p. 173-184.				
Geosciences	John Dunbar		Geophysics, plate tectonics, and geodynamics. He currently uses near surface geophysical methods to study water reservoirs, flood water retention structures, and coastal processes and the effects of hurricanes and the holocene evolution.	Bennett, S.J. and J.A. Dunbar, Physical and stratigraphic characteristics of sediment impounded within a flood control reservoir, Oklahoma, Journal of Earth Surface Processes (In Press), November, 2002.				
Geosciences	Stephen Dworkin		Aqueous and isptopic geochemistry, as well as, sedimentary petrology. He uses his research to reconstruct paleoclimates and terrestrial environments.	Dworkin, S.I., Nordt, L., and Atchley, S., 2009, A 7 MA record of $\delta^{13}C_{O2}$ derived from organic matter in late Cretaceous and early Tertiary paleosols, GSA abstracts w/programs, v. 41				
Geosciences	Stephen Forman	Geoluminescence Dating Research Laboratory	Paleoclimatology, quaternary geology and environments, geochronology, and paleoseismology. His research involves environmental and climate	Wright, D., Forman, S. L., Waters, M. and Raveslout, J., 2011. Holocene eolian activity as a proxy for broad-scale landscape change on the Gila River Indian Community, Arizona. Quaternary Research 76 (1), 10-21.				

			change and he welcomes interested students.					
Geosciences	James (Jamey) Fulman		Biogeochemistry, organic geochemistry, and geomicrobiology. He has studied modern and ancient ecosystems with respect to paleoclimatology especially the impact of microbes.	Fulton, J.M., Michel, L.A., and Van Mooy, B.A.S. Pigment and lipid desiccation proxies from cyanobacteria in desert soil and Great Salt Lake sediments. GSA Annual Meeting. Vancouver, BC, Canada. (Oct. 2014)				
Geosciences	Donald Greene		Earth science, and geography. His research includes agricultural meteorology and environmental geography.	Greene, Don M., 2002, "The Influence of Forward Velocity and Structural Density on Tornado Mortality" Abstracts of the National Weather Association, 27th Annual Meeting, Ft. Worth, Texas.				
Geosciences	William Hockaday	Organic Geochemistry Lab	Study of biogeochemical processes that control the carbon and nitrogen cycles. Is currently looking for ecological/earth/or environmental science majors for research.	D. Li, W.C. Hockaday, C.A. Masiello, P.M. Alvarez, Earthworm avoidance of biochar can be mitigated by wetting, Soil Biology and Biochemistry, 43, 1732-1737, 2011.				
Geosciences	Peter James		Planetary geophysics, gravimetry, and geodynamics. His research focuses on the study of planetary interiors.	Susorney, H., P. James, N. Chabot, C. Ernst, E. Mazarico, and G. Neumann (2017). Measuring the thickness of Mercury's polar water ice deposits using the Mercury Laser Altimeter. In Proc. of the 48th Lunar and Planetary Sciences Conference, 2059				
Geosciences	Scott James		Environmental fluid dynamics.					
Geosciences	Lee Nordt		Developing modern-ancient analogues of soil and paleosol weathering, ancient landscape reconstruction, stable biogeochemistry of climate change, the soil carbon cycle, Quaternary geology, and geoarchaeology.	Ahr, S.W., Nordt, L.C., and Schaetzl, R. (2017). Lithologic discontinuities in soils. In The International Encyclopedia of Geography: People, the Earth, Environment, and Technology, (Eds.) Richardson, D., Castree, N., Goodchild, M., Kobayashi, A., Liu, W., Marston, R. John Wiley & Sons, Ltd. DOI:10.1002/9781118786352.wbieg0816.				
Geosciences	Daniel Peppe		Paleobotany, paleomagnetism, and paleoclimate. Interested in how environmental change drives evolutionary processes in plants and animals. Is currently looking for undergraduate researchers.	Faith, J.T., Tryon, C.A., Peppe, D.J., *Beverly, E.J., *Blegen, N., in press, Biogeographic and evolutionary implications of an extinct Late Pleistocene impala from the Lake Victoria Basin, Kenya: Journal of Mammalogy. <a href="https://www.danielpeppe.com">https://www.danielpeppe.com</a>				
Geosciences	Jay Pulliam		Earthquake seismology and geophysics through theoretical and computational seismology.	ocean Bottom Seismograph Study of Seismicity and Tectonics in the Northeast Caribbean, EarthScope, Seismic Investigation of Edge Driven Convection Associated with the Rio Grande Rift (SIEDCAR)				
Geosciences	Yelderman		Primary interests are sustainable water management and hydrology.	Wong, Stephanie and Yelderman, Joe C., Jr., 2014, Time Not wasted: How Collaborative Research and Education Help Build groundwater Sustainability in Rural Northern Uganda, Africa				

				Geological Society of America, Abstracts with Programs Vol. 46, No. 6, p.61.				
Bioinformatics	Dr. Erich Baker		Distributed analysis systems	Biological information management systems, distributed databases, application of graph algorithms to biological processes, translational genomics and systems biology.	<a href="http://cs.ecs.baylor.edu/~baker/">http://cs.ecs.baylor.edu/~baker/</a>	Bench		
Bioinformatics	Dr. Young-Rae Cho	BioNetwork Lab <a href="http://bionet.ecs.baylor.edu/projects.html">http://bionet.ecs.baylor.edu/projects.html</a>	Bioinformatics and Computational Biology Data Mining and Data Management	Computational network biology, functional genomics, semantic analytics, pattern mining, classification, clustering, and data integration.	<a href="http://web.ecs.baylor.edu/faculty/cho/">http://web.ecs.baylor.edu/faculty/cho/</a>	Bench		
Electrical and Computer Engineering		Time Scales	Similarities and differences between continuous and discrete systems, study of Laplace and Z transforms, Continuous and discrete Fourier transforms, Continuous and discrete Lyapunov equations		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Blood Glucose Analysis	Sugar effects on electrical permittivity of blood	Microwave Applied Metrology Research	<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Configurable Fault Tolerant Processor	Application of programmable system on a chip in space environments	Associated with Naval Postgraduate School with the US Naval Academy and Baylor	<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Energy Efficient Power Electronics Systems and Smart-Grid	Develop and promote highly efficient energy conversion technologies for power electronics systems and energy renewal conversion systems for smart-grid.		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Exercise Equipment	Innovation in exercise equipment	Associated with Curves International	<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		F/A-18 Avionics Architecture Study	Extending the lifetime and performance of real-time embedded computer systems		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Intelligent Distributed Control of Power Plants	Development of an Intelligent Distributed Control System (IDCS) for a large-scale power plant, coupled with complex network of sensor/actuators using Multi-Agent Systems (MAS).		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Microwave Applied Metrology	Use of low level microwave signals and ultra wideband pulses of energy to measure the electromagnetic properties of materials		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			

Electrical and Computer Engineering		Multi-Agent Systems	An agent is a computer software program that is autonomous and situated in some distributed environments in order to meet its design objectives.		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Neural Networks Architectures	Investigation of a mathematical approach to extrapolation, using a combination of system-type neural network architecture and the semigroup theory. Semigroup theory provides the basis for the neural network architecture, the neural network operation and also for the extrapolation process.		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Pulp Stock Consistency Calibrator	Precise measurement of the weight of fibers present in the water slurry of paper fibers.	Microwave Applied Metrology Research	<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Reconfigurable Computing	Reconfigurable computers use large field programmable gate arrays (FPGAs) to augment traditional microprocessors.		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Swarm Intelligence	A swarm can be defined as a loosely coupled set of agents obeying simple rules that combine to an emergent behavior whose aggregate performance exceeds the sum of individual efforts.		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Electrical and Computer Engineering		Time Transit Tomography	A procedure whereby objects are reconstructed from their projections.		<a href="https://www.ecs.baylor.edu/ece/index.php?id=865392">https://www.ecs.baylor.edu/ece/index.php?id=865392</a>			
Physics	Lorin Matthews	Astrophysics and Space Science Theory Group	Astrophysics and Space Sciences	Complex plasmas, nanoscale physics, gravitoelectrodynamics, protostellar evolution, grain charging in dense and tenuous dusty plasmas, wave propagation, numerical modeling of hypervelocity impacts	<a href="https://www.baylor.edu/physics/index.php?id=69676">https://www.baylor.edu/physics/index.php?id=69676</a>			
Physics	Gerald Cleaver	Early Universe Cosmology and Strings Group	Astrophysics and Space Sciences	Gravitational physics, cosmology and high energy astrophysics, superstring / M theory	<a href="https://www.baylor.edu/physics/index.php?id=69676">https://www.baylor.edu/physics/index.php?id=69676</a>			
Physics	Truell Hyde	Hypervelocity Impacts & Dusty Plasmas Lab and The Space Science Lab	Astrophysics and Space Sciences	Laboratory simulations of topics covered by the Space Science Theory Group (see above)	<a href="https://www.baylor.edu/physics/index.php?id=68533">https://www.baylor.edu/physics/index.php?id=68533</a>			
Physics	Anzhong Wang	Gravity, Cosmology, and Astroparticle Physics Group	Astrophysics and Space Sciences, Elementary Particle Physics	Late cosmic acceleration of the universe, string/M theory, cosmological constant problems, Horava-Lifshitz theory, higher dimensional black holes	<a href="https://www.baylor.edu/physics/index.php?id=68896">https://www.baylor.edu/physics/index.php?id=68896</a>			

Physics	Wickramasinghe Ariyasinghe	Atomic and Molecular Physics Lab	Atomic and Molecular Physics	Interactions of low energy and intermediate energy electrons with atoms and molecules.	<a href="https://www.baylor.edu/physics/index.php?id=68901">https://www.baylor.edu/physics/index.php?id=68901</a>			
Physics	Kenneth Park	Laboratory for Surface Analysis and Modification (LSAM)	Condensed Matter Physics	Contemporary surface science research. The main instrument in LSAM is the XSAM 800 Surface Analysis System.	<a href="https://www.baylor.edu/physics/index.php?id=68651">https://www.baylor.edu/physics/index.php?id=68651</a>			
Physics	Greg Benesh	Condensed Matter Theory	Condensed Matter Physics	Surface analysis, impurities, and embedding	<a href="https://www.baylor.edu/physics/index.php?id=68895">https://www.baylor.edu/physics/index.php?id=68895</a>			
Physics	Zhenrong Zhang	Surface Chemical Physics	Condensed Matter Physics	Synthesis of controlled "inverse" model oxide nanocatalysts	<a href="https://www.baylor.edu/physics/index.php?id=71352">https://www.baylor.edu/physics/index.php?id=71352</a>			
Physics	Howard Lee	Lee Lab	Condensed Matter Physics	Nano-optics, plasmonics, metasurfaces, microstructured fiber optics	<a href="https://www.baylor.edu/physics/index.php?id=925932">https://www.baylor.edu/physics/index.php?id=925932</a>			
Physics	Bennie Ward	Elementary Particle Theory Lab	Elementary Particle Physics	Standard Model research	<a href="https://www.baylor.edu/physics/index.php?id=68526">https://www.baylor.edu/physics/index.php?id=68526</a>			
Physics	Jay Dittmann Kenichi Hatakeyama	Experimental High Energy Physics Program	Elementary Particle Physics	High-energy particle physics at CERN and the Fermilab in Batavia, IL	<a href="https://www.baylor.edu/physics/index.php?id=68534">https://www.baylor.edu/physics/index.php?id=68534</a>			
Physics	Walter Wilcox	Lattice QCD Lab	Elementary Particle Physics	Quantum chromodynamics	<a href="https://www.baylor.edu/physics/index.php?id=68902">https://www.baylor.edu/physics/index.php?id=68902</a>			
Physics	Jeffrey Olafsen	Nonlinear, Non-Equilibrium, and Chaotic Dynamics	Non-Linear Dynamics	Convection and local instabilities	<a href="https://www.baylor.edu/physics/index.php?id=68894">https://www.baylor.edu/physics/index.php?id=68894</a>			
Physics	Marlan Scully	Quantum Optics Laboratory	Quantum Optics	Raman spectroscopy techniques to observe vibrational, rotational and other low-frequency modes in a system.	<a href="https://www.baylor.edu/BRIC/index.php?id=98997">https://www.baylor.edu/BRIC/index.php?id=98997</a>			
Physics	Howard Lee	DHL Nano-Optics Lab	Nano Optics	Active plasmonics/ metasurfaces, zero-index optics, quantum bio- photonics, micro-structured fiber optics, and photonic/ plasmonic integrated nanodevices research.	<a href="https://sites.google.com/site/caltechhowardlee/">https://sites.google.com/site/caltechhowardlee/</a>		Undergraduates are welcome to apply	
Mechanical Engineering	Dr. Carolyn Skurla, Dr. Joe Kuehl		Bone Biomechanics Research		<a href="https://web.ecs.baylor.edu/faculty/Skurla/">https://web.ecs.baylor.edu/faculty/Skurla/</a>			
Mechanical Engineering			Control Strategies for Coordinated, Multi-segmented Motion					
Mechanical Engineering			Geometric & Graphical Modeling of Non-rigid Materials					
Mechanical Engineering			Image Analysis and 3D Reconstruction					
Mechanical Engineering	Dr. Brian Garner	The Garner Group	Mechanical Systems Modeling, Simulation, and Visualization		<a href="https://web.ecs.baylor.edu/faculty/garner/">https://web.ecs.baylor.edu/faculty/garner/</a>			
Mechanical Engineering	Dr. Carolyn Skurla	The Skurla Group	Orthopedics Research		<a href="https://web.ecs.baylor.edu/faculty/Skurla/">https://web.ecs.baylor.edu/faculty/Skurla/</a>			
Mechanical Engineering	Dr. Jonathan Rylander	The Rylander Group	Orthopedics and Rehabilitation Issues/Research		<a href="https://www.ecs.baylor.edu/index.php?id=868782">https://www.ecs.baylor.edu/index.php?id=868782</a>			
Mechanical Engineering	Dr. Stephen McClain	The McClain Group	Convective Heat Transfer from Realistic Ice Accretion Roughness		<a href="https://web.ecs.baylor.edu/faculty/mcclain/">https://web.ecs.baylor.edu/faculty/mcclain/</a>			

Mechanical Engineering			Turbulent Flow Diagnostics using Stereo Particle Image Velocimetry (S-PIV) and Planar Laser Induced Fluorescence (PLIF)				
Mechanical Engineering			Heat Transfer Enhancement in Rotating Turbine Blades				
Mechanical Engineering			Film Cooling for Gas Turbine Airfoils and Combustor Liners				
Mechanical Engineering	<a href="#">Dr. Lesley Wright</a>	The Wright Group	Heat Transfer Enhancement with Dimple and Rib Turbulators and Jet Impingement		<a href="https://www.ecs.baylor.edu/index.php?id=867328">https://www.ecs.baylor.edu/index.php?id=867328</a>		
Mechanical Engineering			High-speed laminar-turbulent transition:		N/A		
Mechanical Engineering	<a href="#">Dr. Joe Kuehl</a>		Geophysical Fluid Dynamics		N/A		
Mechanical Engineering			Effects of Flow Separation on Low Pressure Gas Turbine Blades				
Mechanical Engineering			Gas Turbine Impingement Cooling				
Mechanical Engineering			Mapping Local Heat Transfer in Heat Exchanger Louvered-Fin Arrays				
Mechanical Engineering			Generating & Documenting the Quality of Free Stream Turbulence and its Impact on Heat Transfer				
Mechanical Engineering	<a href="#">Dr. Kenneth Van Treuren</a>	The Van Treuren Group	Mixing and transport processes in turbulent boundary layers		<a href="https://www.ecs.baylor.edu/index.php?id=867327">https://www.ecs.baylor.edu/index.php?id=867327</a>		
Mechanical Engineering	<a href="#">Dr. William Jordan</a>	The Jordan Group	Fiber Reinforced Plastic Composite Materials		<a href="https://www.ecs.baylor.edu/index.php?id=867319">https://www.ecs.baylor.edu/index.php?id=867319</a>		
Mechanical Engineering	<a href="#">Dr. David Jack</a>	The Jack Group	Ultrasonic Characterization of Fiber Reinforced Composites		<a href="https://www.ecs.baylor.edu/index.php?id=867318">https://www.ecs.baylor.edu/index.php?id=867318</a>		
Mechanical Engineering	Dr. Douglas Smith, Dr. David Jack		Fiber Orientation Prediction Models for Fiber-Filled Thermoplastic Composites		<a href="https://www.ecs.baylor.edu/index.php?id=867318">https://www.ecs.baylor.edu/index.php?id=867318</a>		
Mechanical Engineering			Laminate Dimensionality: Residual Stresses and Processed Part Curvature				
Mechanical Engineering			Modeling and Simulation the Electrical and Thermal Behavior of Carbon Nanotube Networks				
Mechanical Engineering	<a href="#">Dr. David Jack</a>	The Jack Group	Growth of CNT Forests for Impact Resistant Composites		<a href="https://www.ecs.baylor.edu/index.php?id=867318">https://www.ecs.baylor.edu/index.php?id=867318</a>		

Mechanical Engineering			Development of Finite Element Analysis Tool for Prediction of Cement in Casing Collapse					
Mechanical Engineering			Fiber Orientation Modeling in FDM Nozzle Flow					
Mechanical Engineering			Non-Isotropic Material Distribution Topology Optimization					
Mechanical Engineering			Large Scale FDM Composite Material Deposition					
Mechanical Engineering			Micro-Mechanics Modeling of FDM Composites					
Mechanical Engineering			Mechanical Evaluation of Carbon Fiber Filled FDM Components					
Mechanical Engineering			Polymer Flow Processing Design					
Mechanical Engineering			Optimization-Based Inverse Heat Transfer					
Mechanical Engineering			Computing Eigenvalue and Eigen Vector Design Derivatives					
Mechanical Engineering			Total Hip Anthroplasty Simulation					
Mechanical Engineering	<a href="#">Dr. Douglas Smith</a>	The Smith Group	SI Joint Modeling		<a href="https://www.ecs.baylor.edu/index.php?id=867325">https://www.ecs.baylor.edu/index.php?id=867325</a>			
Mechanical Engineering	<a href="#">Dr. Sunghwan Lee</a>	The Lee Group	<a href="#">Thin Film Materials and Devices</a>		<a href="http://baylorme.wixsite.com/leethinfil">http://baylorme.wixsite.com/leethinfil</a>			
Statistics	Dr. Jack Tubbs		Statistics in Biopharmaceutical Research		<a href="https://www.baylor.edu/statistics/index.php?id=941686">https://www.baylor.edu/statistics/index.php?id=941686</a>	Computational		
Statistics	Dr. James Stamey		Primary research is in parameter estimation when data is subject to measurement error. This has application in areas as diverse as marketing, economics, epidemiology, and political science.		<a href="https://www.baylor.edu/statistics/index.php?id=941846">https://www.baylor.edu/statistics/index.php?id=941846</a>	Computational		
Statistics	Dr. Jane Harvill		Time series analysis is the primary focus of my statistical research. I am also extending my work into spatial statistics.	Computational statistics.	<a href="https://www.baylor.edu/statistics/index.php?id=941833">https://www.baylor.edu/statistics/index.php?id=941833</a>	Computational		
Statistics	Dr. Amanda Hering		Research focuses on applied problems in engineering and the environment using multivariate, time series, and spatial statistical methods. Mostly interested in modeling big,	<a href="https://sites.baylor.edu/mandy_hering/">https://sites.baylor.edu/mandy_hering/</a>	<a href="https://www.baylor.edu/statistics/index.php?id=941850">https://www.baylor.edu/statistics/index.php?id=941850</a>	Computational		



			multivariate, spatial datasets; developing methods for categorical spatial data; and detecting outliers and faults for process and data control.					
Statistics	Dr. Jeanne Hill		Primary research area involves selection procedures for probability distributions with engineering applications.		<a href="https://www.baylor.edu/statistics/index.php?id=941848">https://www.baylor.edu/statistics/index.php?id=941848</a>	Computational		
Statistics	Dr. David Kahle		Current major projects involve algebraic statistics (mpoly, algstat, latter, m2r) and Bayesian statistics for pharmaceutical clinical trials (proprietary).		<a href="https://www.kahle.io/">https://www.kahle.io/</a>	Computational		
Statistics	Dr. Joshua Patrick		A semiparametric spatio-temporal model for solar irradiance data.		<a href="https://www.baylor.edu/statistics/index.php?id=941853">https://www.baylor.edu/statistics/index.php?id=941853</a>	Computational		
Statistics	Dr. John Seaman, Jr.		Bayesian Statistics		<a href="https://www.baylor.edu/statistics/index.php?id=941855">https://www.baylor.edu/statistics/index.php?id=941855</a>	Computational		
Statistics	Dr. Joon Jin Song		Applied Statistics	Radar rainfall, applied economics, oncogenes, trends in lipid screening	<a href="https://www.baylor.edu/statistics/index.php?id=941851">https://www.baylor.edu/statistics/index.php?id=941851</a>	Computational		
Statistics	Dr. Dean Young		Probabilities, confidence intervals, Bayesian intervals		<a href="https://www.baylor.edu/statistics/index.php?id=941857">https://www.baylor.edu/statistics/index.php?id=941857</a>	Computational		