DOE OUTSTANDING JUNIOR INVESTIGATOR PROGRAM AWARDEES

FISCAL YEAR	PRINCIPAL INVESTIGATOR	INSTITUTION AT TIME OF AWARD	PROPOSAL TITLE
2008	Frederick Denef Ivan Furic Karsten Heeger	Harvard University Florida, University of Wisconsin, University of	OJI-Black Holes, String Vacua and Superconductors TeV Muons - Heralds of New Physics at the LHC Precision Studies of the Reactor Antineutrino Spectrum and the Search for Theta 13 at Daya Bay
	Dragan Huterer Jonathan Link	Michigan, University of Virginia Polytechnical Institute	Probing the Nature of Dark Energy With SNAP and DES Experimental Studies in Neutrino Masses and Mixing Angles
	Yurii Maravin Radu Roiban	Kansas State University Pennsylvania State University	The Path to Discoveries With the CMS ECAL Detector Lessons From String Theory, Gauge Theory and Gravity
	Lian-Tao Wang Daniel Whiteson	Princeton University California, University of at Irvine	Discovery and Interpretation of New Physics in the LHC Era New Physics With Electrons and Muons at ATLAS
	Peter Wittich	Cornell University	Searches for Physics Beyond the Standard Model and Triggering on Proton-Proton Collisions at 14 TeV LHC
2007	Walter Goldberger	Yale University	Investigations in the Field Theories: From Gravity to the Electroweak Scale
	Thomas Kutter	Louisiana State University	Optimization, Construction, and Commissioning of the Side Muon Range Detector for the T2K Off-Axis Neutrino Long Baseline Experiment
	Francis Petriello Alexi Safanov	Wisconsin, University of Texas A&M University	OJI: Uncovering the Secrets of Nature at Colliders DOE OJI: The Path to SUSY/Higgs Discovery at the LHC: Taus as a Critical Component
	Marcus Spradlin Rainer Wallny	Brown University California, University of at Los Angeles	Mathematical Structures in Gauge and String Theory OJI: Advanced Analysis Techniques for High pT Physics and an Improved Beam Conditioning Monitoring System for Hadron Colliders
2006	Christian Bauer	Lawrence Berkeley National Laboratory	Model independent predictions of strong interaction effects
	Hsin-Chia Cheng	California, University of at Davis	New Physics at the Energy Frontiers
	Robin D. Erbacher	California, University of at Davis	Exploiting the Energy Frontier
	Yuri Gershtein	Florida State University	Recovering the Intrinsic Electromagnetic Energy Resolution in CMS
	Sunil R. Golwala	California Institute of Technology	A Weakly-Interacting Massive Particle Dark Matter Detector Using Microwave Kinetic Inductance Phonon Sensors
	Norbert Neumeister	Purdue University	Reconstruction and Selection of Muons for Early Physics Discoveries at the LHC
	Leonardo Rastelli	New York, State University of at Stony Brook	Open Strings
	Neal Weiner	New York University	Beyond the Standard Model: The Weak Scale, Neutrino Mass and the Dark Sector
2005	Thomas Blum Daniel Chung Glenn Horton-Smith Hong Liu	Connecticut, University of Wisconsin, University of Kansas State University Massachusetts Institute of Technology	Precision $N_f = 2 + 1$ Lattice QCD Calculations Connecting Cosmology and High Energy Theory Toward New Discoveries at Low Energy Neutrino Experiments Spacelike Singularities in AdS/CFT
	Owen Long	California, University of at Riverside	A Program to Study CP Asymmetries in Penguin-Dominated B Decays at BABAR
	Lubos Motl Evelyn Thomson	Harvard University	Spectrum of M-theory, Black Holes, and Matrix Theory Research in High Energy Physics

2004	Albion Lawrence Konstantin Matchev	Brandeis University Florida, University of	String Theory and the Macroscopic World Searches for New Phenomena in Particle Physics and Astrophysics
	Petar Maksimovic	Johns Hopkins University	Enhancing the CDF's B physics program with a faster data
	Yasunori Nomura	California, University of at Berkeley	acquisition system Symmetry Breaking, Unification, and Theories Beyond the Standard Model
	David Casper	California, University of at Irvine	An Experimental Research Program in Neutrino Physics and Nucleon Decay
	David Berenstein	California, University of at Santa Barbara	String Theory and Large N Gauge Theories
	David Stuart	California, University of at Santa Barbara	Searches for New Phenomena in CDF-II with Forward Silicon Tracking
	Henric Krawczynski	Washington University	Using VERITAS to Explore Supermassive Black Holes and the Early Structure Formation in the Universe
2003	Mina Aganagic Richard Gaitskell	Washington, University of Brown University	String Theory Dynamics with Little Supersymmetry Development of Advanced Photo Detectors for WIMP Dark Matter Xe Detector Array
	David Kaplan	Johns Hopkins University	Physics Beyond the Standard Model and Electroweak Symmetry Breaking
	Kirill Melnikov Mark Messier	Hawaii, University of Indiana University	Perturbative Quantum Field Theory: Methods and Applications Development of an Experiment to Search for Oscillations of Muon Neutrinos to Electron Neutrinos Using the NuMI Neutrino Beam
	Kate Scholberg Witold Skiba	MIT Yale University	Outer Detector Work on Super-Kamiokande and K2K Physics at the TeV Scale and Beyond
2002	Peter Gorham	Hawaii, University of	Research in Radio-frequency Detectors for High Energy Physics and Particle Astrophysics
	Michael Hildreth David Kirkby	Notre Dame, University of Califonia, University of at Irvine	Optimizing Higgs Discovery Prospects at the Tevatron Fundamental Symmetries of B Decays
	Zoltan Ligeti	Lawrence Berkeley National Laboratory	Physics of Heavy Hadrons
	Kevin Pitts Martin Schmaltz	Illinois, University of Boston University	A Stereo Tracking System for the CDF Detector Physics Beyond the Standard Model
	Ying Wu	Duke University	3D Magnetic Field Effects on the Beam Dynamics in the Next Generation High Energy Physics Accelerators
2001	Darin Acosta Andrew Brandt	Florida, University of Texas, University of at Arlington	Search for Fundamental Scalar Particles at Hadron Colliders A Forward Proton Detector for the D Zero Experiment
	Csaba Csaki Regina Demina Ulrich Heintz Wayne Hu	Cornell University Kansas State University Boston University Chicago, University of	Physics of Extra Dimensions Radiation Hard Silicon Layer 0 and D0 Discovery Potential Search for the Higgs Boson with the DO Detector Fundamental Physics from the Cosmic Microwave Background and the Large-Scale Structure of the Universe
	Matthew Strassler Raman Sundrum James Wells	Johns Hopkins University	At the Junction of Particle Physics, Field Theory and String Theory Research in Theoretical High Energy Physics Elucidating the Phenomenological Consequences of Electroweak Symmetry Breaking Theories
2000	Steven Gubser Lam Hui Ashutosh Kotwal Frank Krennrich	Princeton University Columbia University Duke University Iowa State University	Strings and Supergravity applied to Gauge Theory The Universe as a Laboratory for New Physics Precision Electroweak Measurements on CDF II A Search for Microsecond Gamma Ray Bursts from Primordial Black
	Meenakshi Narain	Boston University	Holes A Precision Measurement of the Top Quark Mass at the Fermilab Tevatron
	David P. Saltzberg	California, UCLA	A New Search for Ultra High Energy Neutrinos and Associated Accelerator Measurements

1999	Amihay Hanany John D. Hobbs	MIT New York, State Univ. of at Stony Brook	Outstanding Junior Investigator Program Searches for New Physics Using Events with Detached Vertices
	Joseph Kroll	•	A Program to Study the Weak Decays of B Hadrons with the CDF Detector at the Fermilab Tevatron
	Kevin S. McFarland	Rochester, University of	Design of the CDF RUN II Level-3 Trigger and the Search for New Physics of Top Quarks
	Eva Silverstein Washington Taylor	SLAC MIT	String Theory, Field Theory, and Supersymmetry Breaking Outstanding Junior Investigator Program
1998	James H. Buckley	Washington University	A Search for High Energy Gamma-Rays from Neutralino Annihilation in the Galactic Center Region
	Paul Fendley Richard E. Hughes Robert G. Jacobsen Marc Kamionkowski Juan Maldacena	Virginia, University of Ohio State University California, UCB Columbia University	Non-Perturbative Quantum Field Theory Top Quark Physics and the CDF-II Trigger Track Processor CP Violation Studies with Modern Software Techniques Cosmological Probes of New Physics Outstanding Junior Program "Strings and Black Holes"
		Harvard University	Outstanding Junior Investigator Program "Strings and Black Holes"
	Krishna Rajagopal	MIT	Outstanding Junior Investigator Proposal for Prof. Krishna Rajagopal
1997	John M. Butler	Boston University	The DO Experiment: Particle Physics at the High Energy Frontier
	Shamit Kachru	California, UCB	Outstanding Junior Investigator Proposal for Professor Shamit Kachru
	Robert Leigh	Illinois, University of	An Outstanding Junior Investigator Proposal to Support Research in Quantum Field Theory and String Theory
	Vittorio Paolone	Pittsburgh, University of	Participation in FNAL Experiment E872: Direct Search For The Tau Neutrino
	Brian L. Winer	Ohio State University	Outstanding Junior Investigator Top Physics and Track Finding at CDF II
1996	Janet M. Conrad	Columbia University	Construction of a Decay Channel for the NuTeV Experiment at
			Fermilab
	Aida X. El-Khadra	Illinois, University of	Support Research on Standard Model Phenomenology with Lattice
	Aida X. El-Khadra David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius	Illinois, University of Johns Hopkins University Kansas State University Rochester, University of Princeton University	
1995	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius Claudio F. Campagnal	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes Top Quark Physics and Electronics Upgrade at CDF
1995	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB Maryland, University of Washington University Princeton University	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes
1995	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius Claudio F. Campagnar Sarah Eno Maarten Golterman Krishna S. Kumar	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB Maryland, University of Washington University Princeton University	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes Top Quark Physics and Electronics Upgrade at CDF Physics With the D0 Detector and the D0 Upgrade The Standard Model and Lattice Gauge Theory Precision Electroweak Experiments with Polarized Electrons Studies in Theoretical Particle Physics Duality and Conformal Field Theory Structures in 4d Supersymmetric
1995	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius Claudio F. Campagnar Sarah Eno Maarten Golterman Krishna S. Kumar Martin J. Savage	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB Maryland, University of Washington University Princeton University Carnegie Mellon University Yale University	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes Top Quark Physics and Electronics Upgrade at CDF Physics With the D0 Detector and the D0 Upgrade The Standard Model and Lattice Gauge Theory Precision Electroweak Experiments with Polarized Electrons Studies in Theoretical Particle Physics
1995	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius Claudio F. Campagnar Sarah Eno Maarten Golterman Krishna S. Kumar Martin J. Savage Samson Shatashvili	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB Maryland, University of Washington University Princeton University Carnegie Mellon University Yale University Boston University Harvard University Chicago, University of Johns Hopkins University	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes Top Quark Physics and Electronics Upgrade at CDF Physics With the D0 Detector and the D0 Upgrade The Standard Model and Lattice Gauge Theory Precision Electroweak Experiments with Polarized Electrons Studies in Theoretical Particle Physics Duality and Conformal Field Theory Structures in 4d Supersymmetric Gauge Theories
	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius Claudio F. Campagnar Sarah Eno Maarten Golterman Krishna S. Kumar Martin J. Savage Samson Shatashvili Elizabeth H. Simmons Michael Bershadsky Edward C. Blucher Adam F. Falk	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB Maryland, University of Washington University Princeton University Carnegie Mellon University Yale University Boston University Harvard University Chicago, University of Johns Hopkins University New York, State Univ. of at	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes Top Quark Physics and Electronics Upgrade at CDF Physics With the D0 Detector and the D0 Upgrade The Standard Model and Lattice Gauge Theory Precision Electroweak Experiments with Polarized Electrons Studies in Theoretical Particle Physics Duality and Conformal Field Theory Structures in 4d Supersymmetric Gauge Theories Particle Theory Beyond the Standard Model Topological String Theories Study Electroweak and B Physics in pp Collisions at 1.8 TeV Research in Theoretical High Energy Physics Experimental Searches for Phenomena Involving Nucleon Decays or Neutrino Oscillations with the Super-Kamiokande Detector Collective Phenomena in High Energy Collisions Development of an Asymmetric Emittance RF Photoinjector for
	David Gerdes Donna Naples Lynne H. Orr Larus Thorlacius Claudio F. Campagnar Sarah Eno Maarten Golterman Krishna S. Kumar Martin J. Savage Samson Shatashvili Elizabeth H. Simmons Michael Bershadsky Edward C. Blucher Adam F. Falk Chang Kee Jung Serguei Khlebnikov	Johns Hopkins University Kansas State University Rochester, University of Princeton University California, UCSB Maryland, University of Washington University Princeton University Carnegie Mellon University Yale University Boston University Harvard University Chicago, University of Johns Hopkins University New York, State Univ. of at Stony Brook Purdue University	Support Research on Standard Model Phenomenology with Lattice QCD Top Quark Physics with an Upgraded CDF Tracking System Multisampling Drift Chamber for COSMOS and NuTeV Top Quark Physics and Related Issues in Phenomenology Strings, Membranes and Black Holes Top Quark Physics and Electronics Upgrade at CDF Physics With the D0 Detector and the D0 Upgrade The Standard Model and Lattice Gauge Theory Precision Electroweak Experiments with Polarized Electrons Studies in Theoretical Particle Physics Duality and Conformal Field Theory Structures in 4d Supersymmetric Gauge Theories Particle Theory Beyond the Standard Model Topological String Theories Study Electroweak and B Physics in pp Collisions at 1.8 TeV Research in Theoretical High Energy Physics Experimental Searches for Phenomena Involving Nucleon Decays or Neutrino Oscillations with the Super-Kamiokande Detector

1	1993	Zvi Bern	California, UCLA	Next to Leading Order QCD Theoretical Physics Research under the DOE OJI Program
		John Ellison	California, UCR	Detector Development and a Measurement of the Wwy Coupling in the D0 Experiment
		Kim E. Griest	California, UCSD	Particle Dark Matter, the Early Universe, and Physics Beyond the Standard Model
		David Kutasov	Chicago, University of	Time Dependent Solutions in String Theory
		Leslie Rosenberg	MIT	Research and Development of High-Magnetic-Field High-Q Microwave Cavities in a Search for Pseudoscalar Dark Matter
		Thomasz Skwarnicki	Southern Methodist University	Third Generation Fermions in CLEO-II Construction of a Robust Detector for SSC
		Terrence P. Walker	Ohio State University	Astroparticle Physics
1	1992	R. Sekhar Chivukula	Boston University	Topics in Elementary Particle Physics
•		John William Gary	California, UCR	A Study of Quark and Gluon Jets and of the Long Distance QCD Force Field at LEP
		Sanjib Mishra	Harvard University	A Next Generation High Energy Neutrino Experiment at the Fermilab Tevatron
		Jianwei Qiu	Iowa State University	Projects on Precision Tests of Quantum Chromodynamics
		Lisa Randall	MIT	Outstanding Junior Investigator Program - Electroweak Symmetry Breaking, Model Building, and Cp Violation
		Paul L. Tipton	Rochester, University of	Heavy Quark Physics with CDF
		Hitoshi Yamamoto	Harvard University	Develop a Particle Identification System Based on Time of Flight
				Measurement for B-Factory
1	1991	Dante E. Amidei	Michigan, University of	Exploit Secondary Vertex Information at the CDF Detector
		Steven Carlip	California, UCD	Quantum Gravity - Outstanding Junior Invesitgator Program
		Andrew G. Cohen	Boston University	Topics in Particle Physics
		K. K. Gan	Ohio State University	Prototype Study of a New Central Drift Chamber for CLEO II and Investigation of the T Paradox Using CLEO II - Outstanding Junior
				Investigator Program
		Gregory Kilcup	Ohio State University	Provide Reliable Calculations of Phenomenologically Relevant
				Parameter from Lattice QCD - Outstanding Junior Investigator Program
		Karol Lang	Texas, University of, Austin	Search for Very Rare Kaon Decays - Outstanding Junior Investigator
		Heidi Schellman	Northwestern University	Program Silicon Tracker Proposal for the D0 Upgrade - Outstanding Junior
		rieidi Scheiiman	Northwestern Oniversity	Investigator Program
1	1990	Steven B. Giddings	California, UCSB	Problems in Theoretical Physics - Outstanding Junior Investigator
		5	0.117	Program
		David H. Kaplan Harry Nelson	California, UCSD California, UCSB	Studies in Theoretical Particle Physics Study of Direct Cp Violation in the Neutral Kaon System -
		riarry recisori	California, CCCD	Outstanding Junior Investigator Program
		Krzysztof Sliwa	Tufts University	CDF (Collider Detector at Fermilab) - Outstanding Junior Investigator Program
		Alan Sokal	New York University	Improved Numerical Methods for Quantum Field Theory
1	1989	Anna Hasenfratz	Florida State University	Theoretical High Energy Elementary Particle Physics
		Paul E. Karchin	Yale University	High Energy Physics
		Kam-Biu Luk	California, UCB	Study of Hyperons and Beauty Particles - Outstanding Junior
		Aneesh V. Manohar	MIT	Investigator Laboratory for Nuclear Science-Outstanding Junior Investigator
				Program
		Milind V. Purohit	Princeton University	Experiment E-791 at Fermilab - Outstanding Junior Investigator Program
		Jeffrey Richman	California, UCSB	CCD Vertex Detector for SLD - Outstanding Junior Investigator Program
		Stephen Sharpe	Washington, University of	Lattice Calculations in the Standard Model

1988	Robert Brandenberge	r Brown University	Physics in the Very Early Universe Outstanding Junior Investigator Program
	Nicholas Hadley	Yale University	High Energy Physics "Outstanding Junior Investigator Program"
	Daniel R. Marlow	Princeton University	A Multiprocessor Computer System for the Analysis of Data from Brookhaven Experiment E787 "Outstanding Junior Investigator Program"
	Ann E. Nelson Philip Nelson	Stanford University Boston University	Research in Theoretical Particle Physics Research in Theoretical Particle Physics - Mathematical Structures in Physics Outstanding Junior Investigator Program
	Patricia Rankin	Colorado, University of	Particle Physics Research "Outstanding Junior Investigator Program"
	Yau W. Wah	Chicago, University of	Measure the Cpt Violating Parameter of the Neutral Kaon System to 0.2 Accuracy and to Search for the Rare Kaon Decay Mode
	L. C. R. Wijewardhana	a Cincinnati, University of	Investigations in Field Theory and Particle Physics
1987	Mark Bowick	Syracuse University	Aspects of Modern Elementary Particle Physics - Outstanding Junior Investigator Program
	Darwin Chang Emil J. Martinec	Northwestern University Chicago, University of	Theoretical Studies in High Energy Physics Topics in String Theory
	Michael Ogilvie	Washington University	Investigations in Quantum Field Theory (Outstanding Junior Investigators Program)
	Richard Partridge	Brown University	Experimental High Energy Physics - Outstanding Junior Investigator Program
	Wesley H. Smith Andrew Strominger	Columbia University California, UCSB	Develop the Calorimeter Trigger for Zeus at Hera Problems in Superstring Theory
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1986	Daryl DiBitonto	Texas A & M University	Search for Diffractive Top at Tevatron Energies - Outstanding Junior Investigator Program
	Michael Dine Paul Ginsparg	City College of New York Harvard University	Beyond the Standard Model Topics in Field Theory - Outstanding Junior Investigator Program
	Steven Gottlieb	Indiana University	Investigations in Theoretical High Energy Physics - Outstanding
	Thomas W. Kephart	Vanderbilt University	Junior Investigator Program Investigations in Theoretical Elementary Particle Physics - Outstanding Junior Investigator Program
	Antti Niemi	Ohio State University	Topological Aspects of Quantum Field Theory, and of Finite Temperature Quantum Filed Theory
	Carl R. Rosenfeld	South Carolina, University of	Exploratory Particle Physics Using the AMY Detector
	Gregory Tarle	Michigan, University of	Development of Large Detectors for Monopoles and Neutrinos
1985	Eric Braaten Daniel Caldi Robert Cousins George Gollin Howard Haber Richard Kass Sherwin Love William Molzen Herbert Neuberger Thomas Weiler	Northwestern University Connecticut, University of California, UCLA Princeton University California, UCSC Ohio State University Purdue University Pennsylvania, University of Rutgers University Vanderbilt University	
1984	Harris Kagan Wai-Yee Keung David Leventhal William Louis Joseph Rohlf Qaisar Shafi Mark Wise	Ohio State University Illinois, University of at Florida State University Princeton University Harvard University Bartol Research Institute Caltech	

1983 Ashok Das Rochester, University of David Koltick Purdue University So Young Pi Amargit Soni California, UCLA

Scott Whitaker MIT

1982 Thomas DeGrand Colorado

R. Hagstrom Argonne National

Laboratory Caltech

John LoSecco Caltech

Paul Steinhardt Pennsylvania, University of

Michael Witherell California, UCSB

1981 Kevin Cahill New Mexico, University of

Thomas Clark
John P. Cumalat
Thomas Curtright
Nilendra Deshpande

Thomas Clark
Purdue University
Colorado, University of
Florida, University of
Oregon, University of

1980 George Brandenburg MIT

John C. Collins Illinois Institute of

Technology

Marjorie Corcoran Rice University

Paul Frampton North Carolina, University

of

David Hitlin Caltech
Joseph Kiskis California, UCD

Michael Marx New York, State Univ. of at

Stony Brook

B. Robinson Pennsylvania, University of Eli Rosenberg Ames Laboratory, Iowa

1979 Emanuel Derman Colorado, University of

Michael Einhorn Michigan

William Fischler Pennsylvania, University of R. Hendrick St. Bonaventure University lan Hinchliffe Lawrence Berkeley Laboratory

Richard Imlay Louisiana State University

Antal Jevicki Brown University

K. Mikaelian Oklahoma State University
Joseph F. Owens Florida State University

Ramamurti Shankar Yale University

1978 Carl Bender Washington University

Robert Cahn
Thomas Dombeck
Thomas Gaisser
T.-Y. Ling
Alan Litke
Domest Maryland, University of Bartol Research Institute
Ohio State University
Stanford University
Howard Nicholson
D. Potter
California, UCD
Maryland, University of Bartol Research Institute
Ohio State University
Mt. Holyoke College
Rutgers University

F. Taylor Northern Illinois University Sau Lan Wu Wisconsin, University of