

Professional Master in Statistics

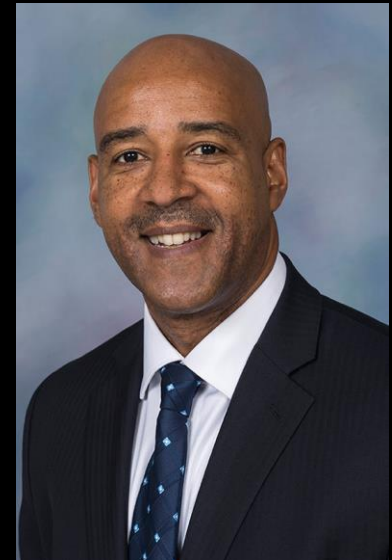
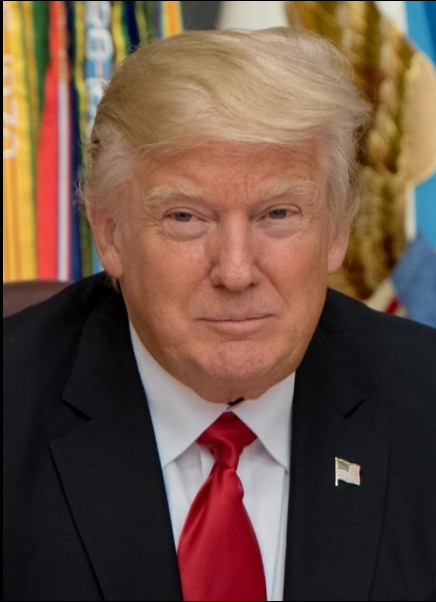
M.Stat

Presented by

John A. Dobelman

Director, M.Stat Program

August 16, 2018



- [Marina Vannucci](#), Professor and Chair of Statistics



- *Theory and Methods*: Bayesian Variable Selection, Wavelet Methods in Statistics
Applications: Bioinformatics, Chemometrics and Engineering

- J.A. Dobelman (DH 2100, 713 348 5681)
 - Professor in the Practice in Statistics, and Director of Professional Master's Program
 - dobelman@stat.rice.edu
 - <http://dobelman.rice.edu/>
 - Here most of the time
- Teaching
 - STAT 499/699, Mathematical Sciences - Computational Finance
 - STAT 482/682, Quantitative Financial Analytics
 - STAT 449/649, Financial Engineering
 - ECON 307/STAT 310, Probability and Statistics
 - ECON 504, Advanced Economic Statistics
 - STAT 431, Overview of Mathematical Statistics
 - STAT 385, Methods Of Data Analysis And System Optimization
 - STAT 486/686, Computational Finance I: Market Models
 - MGMT 927/627, Enterprise Exchange
 - STAT 280, Elementary Applied Statistics
 - MBA/MIB 5315, Statistical Methods for Management Decisions



- Margaret Poon, Administrative Lead

- Verify all academic forms

- Student timesheets
 - Part-time status
 - Student CPT/OPT

- After coordination with OISS

- Testamentary letters (Visa, employment)

- Coordinates all student employment

- Coordinates facilities & equipment issues

- Provide hard copy of all forms and agreements to Ms. Poon, x6032,

- poon@rice.edu



- Agustina “Tina” Fernandez Moya
 - afernandezmoya@rice.edu
 - Extension 2852
 - Certified Public Accountant (CPA)
- George R. Brown School of Engineering, Engineering Professional Master’s Program (GRB EPMP) coordinator
- School-wide events and support
- EPMP Orientation Friday, August 17 at 1500 (McMurtry Auditorium)





M.Stat. - Applied Statistics for Industry

HE, XINGZI (F)

M.Stat. - Bioinformatics, Statistical Genetics, & Biostats

Jiang, Ruiyan (F)

Nie, Grace (F)

Stefanick, Nathan (M)

Wu, Xue (F)

M.Stat. - Financial Statistics and the Statistics of Risk

Li, Keming (F)

Lin, Sen (M)

Qian, Weicheng (M)

Ramesh, Sathya (M)

Wang, Mengqing (F)

Xiang, Hao (F)

Xing, Dongyu (F)

Xing, Yifan (F)

Yu, Jingfei (F)

M.Stat. - Preparation for Ph.D. Studies in Statistics

Riggs, Kaleigh (F)

M.Stat. - Statistical Computing and Data Mining

Allen-Glass, Violet (F)

Bi, Yifei (F)

Bian, Tao (F)

Canby, Marc (M)

CHOI, JEONG HOON (M)

HE, Yuan (M)

He, Yue (F)

Jiang, Yunxi (F)

Kim, Adam (M)

Konduri, Pradhith (M)

Long, Xiaochen (M)

Rodgers, Michael (M)

Yang, Peng (M)

Ye, Jinchen (M)

Zhang, Kai (M)

Zhang, Yifan (F)

Zhu, Ouyang (M)

MCSE - STAT

Ramirez, Isis (F)

Anderson, Zachary (M)

Canby, Marc (M)

Chen, Yian (M)

Choi, Jeong Hoon (M-Brian)

Ding, Dong (Daisy-F)

Gao, Siyue (F)

Gao, Wei (F)

Hinchey, Nathalie (F)

Jiang, Ruiyan (F)

Jin, Ran (M)

Konduri, Pradhith (M)

Kwon, Jin-Hyuk (I)

Lin, Yunyi (F)

Liu, Jinhong (F)

Liu, Tengjiao (F)

Liu, Yuyan (F)

Qin, Rui (M)

Shah, Miten (M)

Smith, Elliot (M)

Tancock, Brian (M)

Volkmar, Peter N. (M)

Wang, Xiao (F)

Webb, Daniel (M)

Wu, Ahra

Xu, Jingda (M)

Ye, Siao (M)

Yu, Shibo (F)

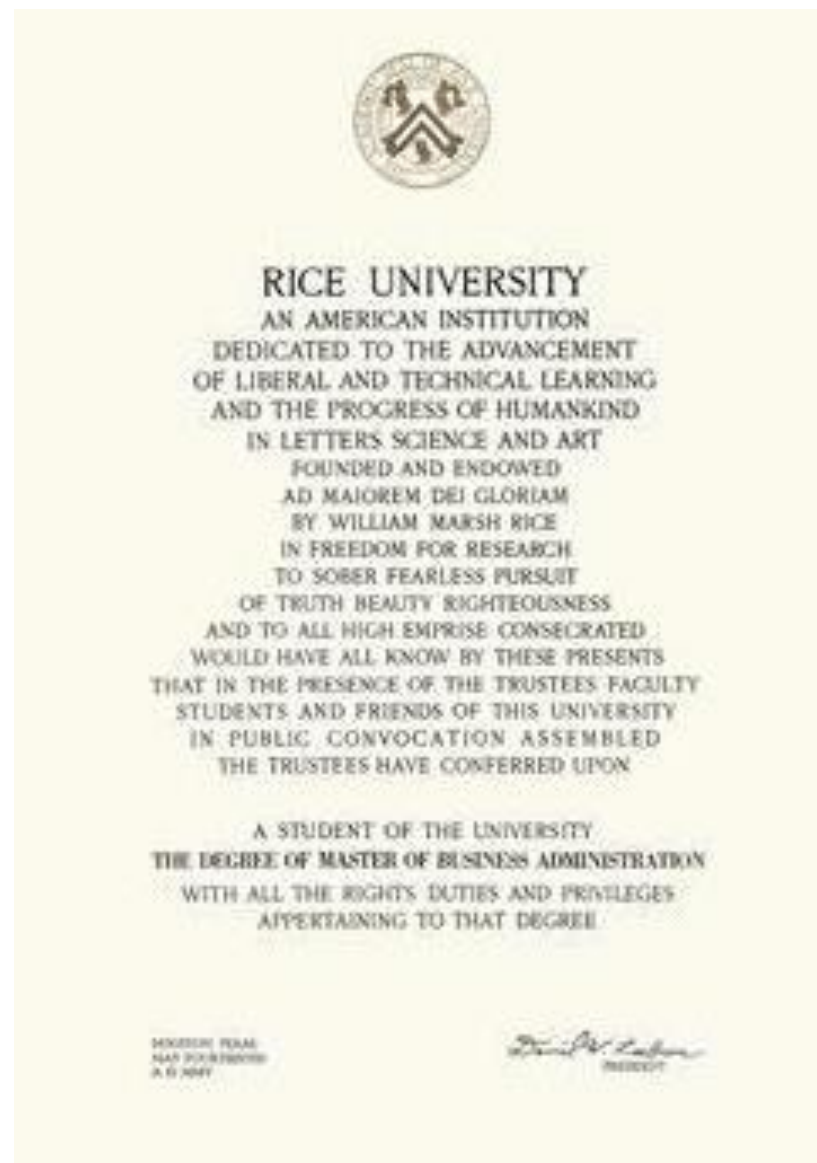
Zeng, Pei (M)

Zhang, Xiang (F)

- Please name the file (if you can):
Lastname, Firstname.jpg
- Send photo to Margaret (poon@rice.edu)
- This is required for any signatures, etc.



- Non-thesis professional master's degree
- Not a MA (thesis) degree
- Coursework only
- Mathematical, theoretical and applied content
- Prepares for occupation as a professional statistician



- 30 hours (10 courses) approved technical coursework, Depending on specialization
- New courses at GRB level for professional development (30+ hrs)

Course	Title	Instructor
ENGI 505	ENGINEERING PROJ MGMT & ECON	Segner, Edmund P.
ENGI 510	TECHNICAL AND MANAGERIAL COMM	Mardis, Jerlyn L.
ENGI 515	LEADING TEAMS AND INNOVATION	Van Kleeck, David A.; Phalen, Thomas E.
ENGI 528	ENGINEERING ECONOMICS	Segner, Edmund P.
ENGI 529	ETHICS & ENGINEERING LEADERSHIP	Segner, Edmund P.
ENGI 545	STRATEGIC THINKING	Chevallier, Arnaud M.
ENGI 600	GRADUATE COMMUNICATIONS SEM	Hewitt, Janice L.
ENGI 610	MGT FOR SCIENCE/ENGINEERING	Barron, Andrew R.
ENGI 614	LEARNING HOW TO INNOVATE?	Mooiweer, Henk
ENGI 615	LEADERSHIP COACHING FOR ENGR	Porche, Germaine

- Focus on Department concentration areas
- 3-4 semester tenure. 3 semester typical
- Must satisfy University residency requirement
 - 1 semester fulltime requirement waived
- Maintenance of GPA for continuation and graduation (3.0)
- No Pass/Fail for courses used to satisfy the 30-hour program

- Optional attendance at Statistics colloquium (strongly recommended; may take for supplemental credit)
- Internships opportunities may develop
- Funding not provided. Opportunities do arise to assist with department courses and other needs at an hourly rate.
- [Honor Code](#)
- Welcome/Needed at all Departmental events

- *AT LEAST:*
 - Fall 2018
 - Spring 2019
 - Note registration deadline is in November!
 - Fall 2019
- Specialties
- Program Tailoring
- Course Selection
- Ongoing advising
- Future Activities and Employment

- Applied Statistics for Industry
- Financial Statistics and the Statistics of Risk
- Bioinformatics, Statistical Genetics, and Biostatistics
- Statistical Computing and Data Mining
- Environmental Statistics
- Preparation for Ph.D. Studies in Statistics, Mathematical Economics, and Finance
- 5th Year and MCSE

- Required of all Specializations (12 hours)
- Choices (Tracks)
- Electives - Recommended
- Free Electives
- Leadership, communication and management development courses

Course	Title	Instructor
STAT 518	PROBABILITY	Kimmel, Marek
STAT 519	STATISTICAL INFERENCE	Scott, David W.
STAT 605	R FOR DATA SCIENCE	Bertolusso, Roberto L.
STAT 615	REGRESSION AND LINEAR MODELS	Merenyi, Erzsebet
STAT 616	ADVANCED STATISTICAL METHODS	Guerra, Rudy

Core - Required of all Specializations (12 hours)**Choices - Tracks**

Track - Financial Statistics/Risk Management (9 hours)

Track - Biostatistics/Bioinformatics/Statistical Genetics

Track - Statistical Computing and Data Mining (9 hours)

Track - Environmental Statistics Core (6 hours)

Electives

Electives - Recommended

Electives - Biostatistics Recommended (6 Hours)

Electives - Bioinformatics Recommended (6 Hours)

Free Electives

Free Electives Outside Dep't

Other Optional Courses**Potential MSCE HPC Options****Recommended Electives Not Counting to Graduation Requirements**

- Applied Statistics for Industry
- Financial Statistics and the Statistics of Risk
- Bioinformatics, Statistical Genetics, and Biostatistics
- Statistical Computing and Data Mining
- Environmental Statistics
- Preparation for Ph.D. Studies in Statistics, Mathematical Economics, and Finance

<http://tinyurl.com/h16rxdn>

- <http://tinyurl.com/h16rxdn>
- The course planning page has credentials
 - UN: dobelman
 - PW: mstat2019

(See course schedule)

- First Semester students
 - Scheduling more than 9 hours in will require Director approval
 - Cannot be paid to grade or other part-time work
- Part-Time Students
 - Group assignments
- Conditional Admissions
 - Conditions on Math-Stat prerequisites
 - Before or after matriculation
 - Conditions on Stat 518/519
 - Conditions on GPA

- Student's responsibilities for all requirements
 - Must be involved in your process and with the other students
 - Coursework (see warnings)
 - How the program works and responsibilities
 - Schedules
 - Participation leaves good impression
 - Deliverables
 - **Filing deadlines** (CPT, Graduation, etc.)

- Buy and read the textbooks
 - Not all courses require textbooks
 - Those that do assume you are reading the material
- Be prepared to do outside research to keep up in class if necessary. This is Master's program.

- Facilities (DH and DH MSTAT Room)
 - ONLY M.STAT Students permitted
 - Keep M.Stat and library rooms tidy
 - Report equipment outages (printer, etc.)
 - Use color printer sparingly and wisely
- Deadlines
 - Add/Drop
 - Graduation paperwork
 - Request to apply UG Coursework to graduate program (5th year students)
 - Non-thesis master's petition
 - M.Stat student portfolios

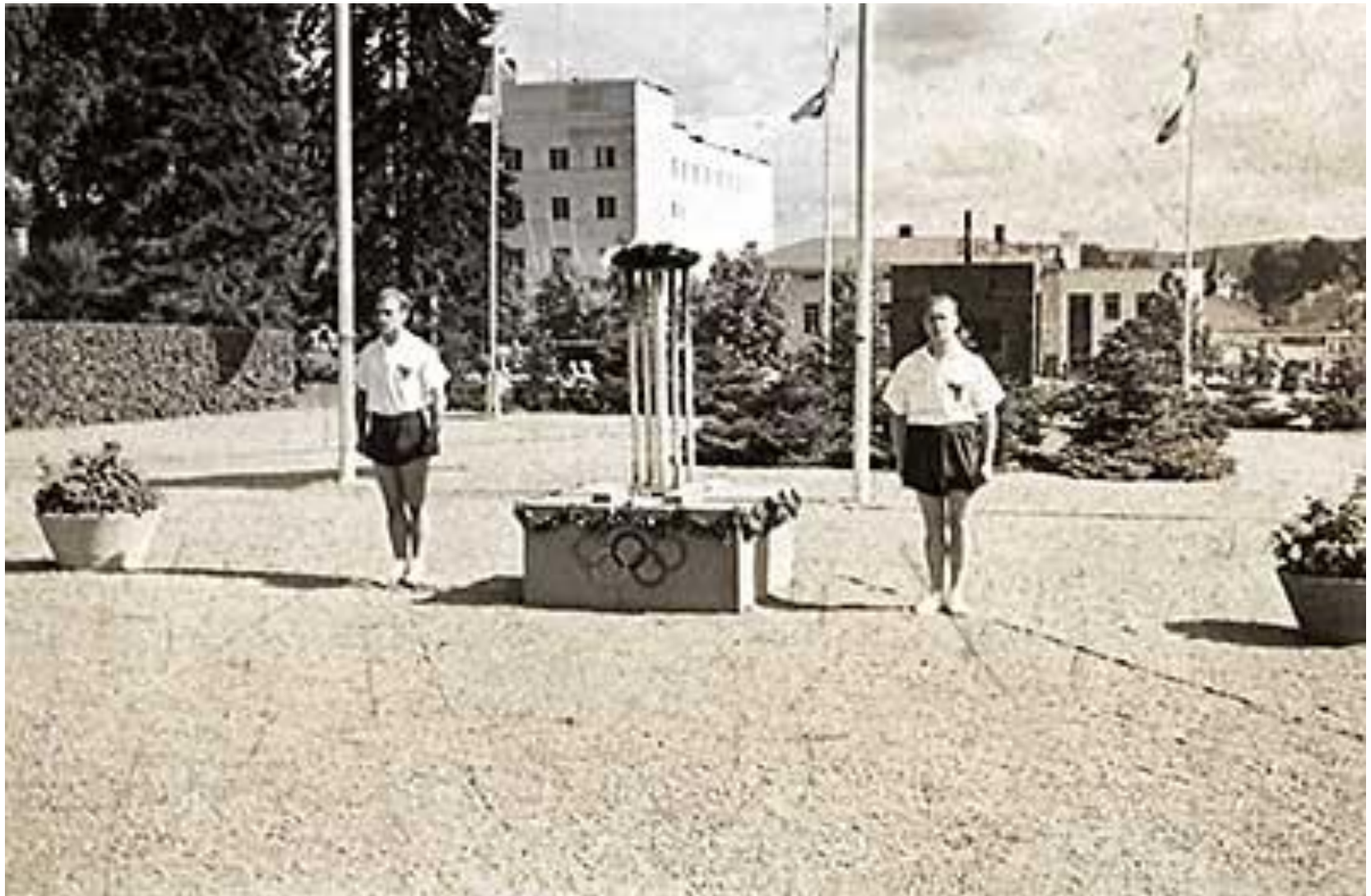
- Review Department [Graduate Student Handbook](#)
- Courses
 - Must be approved prior to each semester
 - 400/500/600 critical to take right course
 - Some NOT ACCEPTABLE

Courses to be counted toward degree:

Courses completed	# of Credits received	Numeric Grade	Grade points Received	Courses in progress	# of Credits in progress	Numeric Grade (GPS completes)	Grade points Received
STAT 405	3	4	12	STAT 552	3	3.33	9.99
STAT 411	3	4	12	STAT 591	4	4	16
STAT 410	3	3.33	9.99	ENGI 528	3	3.67	11.01
STAT 431	3	3.37	10.11	ENGI 315	3	4	12
STAT 606	3	3.67	11.01	ENGI 610	3	3.67	11.01
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			0				0
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- Responsibility
 - Start early!
- Internships
 - Citizens
 - OISS requirements
- Employment
- [See website](#)
 - See [secret website](#)

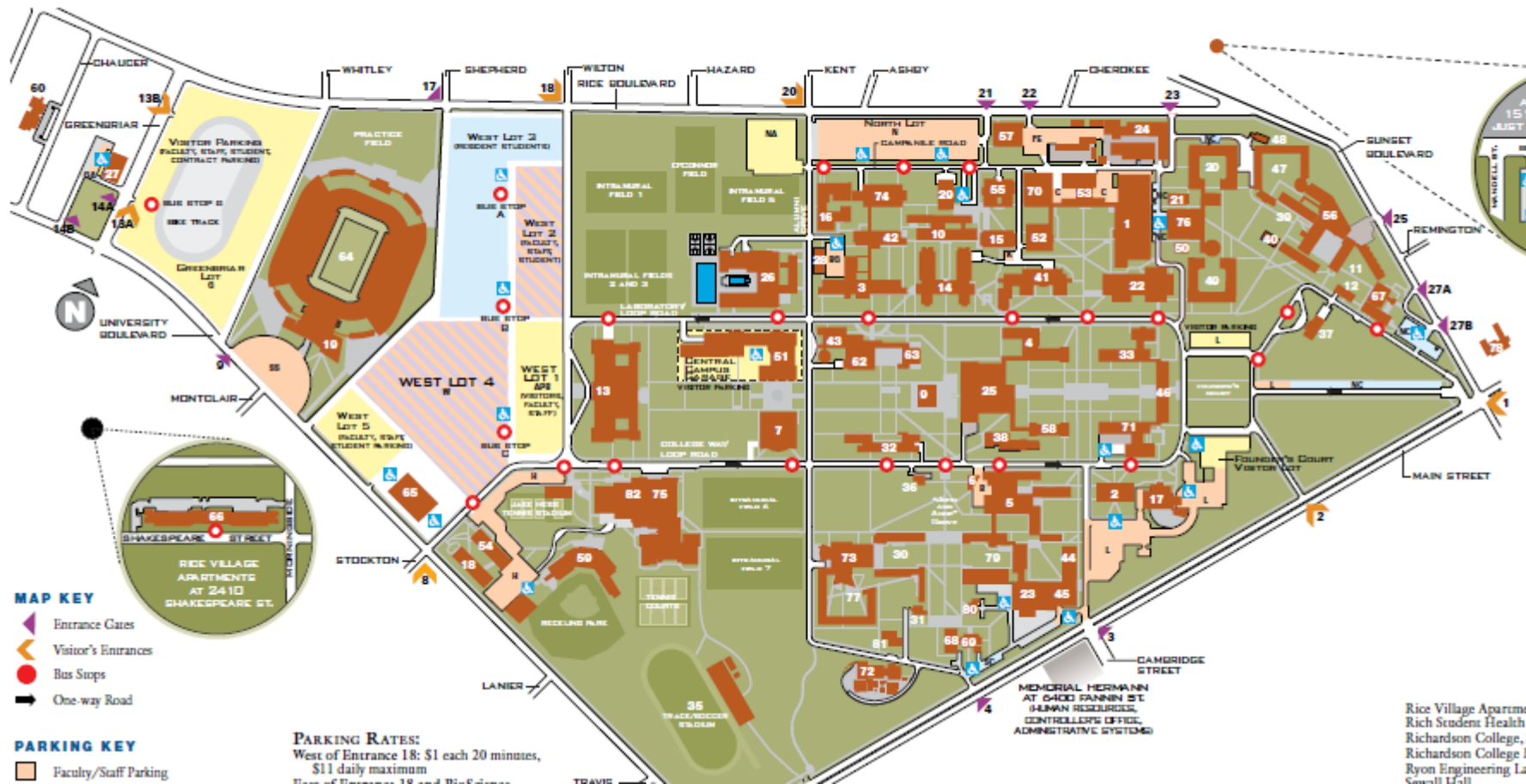




- United States of America (USA)
- State of Texas
- City of Houston



RICE UNIVERSITY CAMPUS MAP



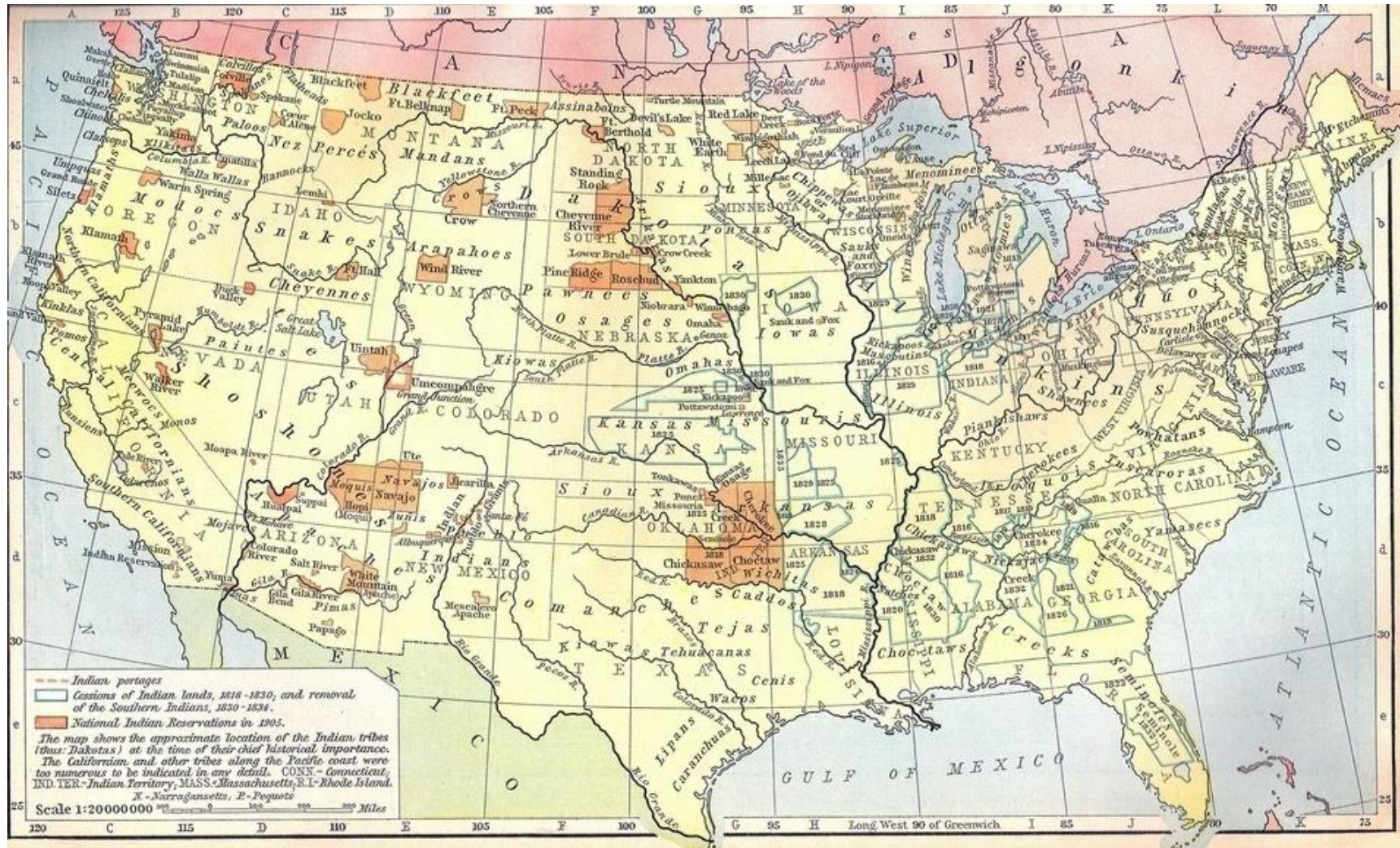
- Department events
 - Monday Lunch 12 Noon
 - Colloquia and Conferences
 - Mixers and recognition and poster sessions
- GSA Events
 - GSA Orientation 5-7pm (Valhalla)
 - [Katherine Shoemaker](#) is our GSA rep
 - Student Associations
 - Artistic
 - Cultural
 - Science and Engineering

- Get to know your fellow students
 - Graduate Student Association (GSA)
 - Professional Masters mixers
 - Statistics Department
 - GRB School of Engineering
 - Practice your English
 - Professor Scott, NOT Professor David!
 - Get involved



- You **MUST** meet with your advisor prior to signing up for classes.
 - CPT STAT 540 does **NOT COUNT** toward M.Stat requirement
 - Colloquium courses (STAT 600, 601) do **NOT COUNT** toward M.Stat requirement
 - Recommended Electives Not Counting to Graduation Requirements do **NOT COUNT**
 - PASS/FAIL grades do **NOT COUNT** toward M.Stat requirement
 - Advising required for LOR/career help

- Welcome to Rice University and to Texas!



- International students must report to the Office of International Students & Scholars (OISS) and abide by their regulations
- They have the most up to date and correct information
- OISS knows the current laws and requirements to securely maintain, and to avoid getting in trouble with your visa

- Part-time students
- CPT Internships - Curricular Practical Training
 - Notify M.Stat director with name of company and parameters of offer such as work performed, salary, dates begin/end
 - Must take Stat 590/591 (1 hr only)
 - OISS Form [F-1 Curricular Practical Training](#)
 - Must be processed PRIOR TO working

- Form F-1, CONT'D
 - Deferred semester for summer internships, (take fall STAT 590)
 - Justification letter, StatDept → OISS, with description of course. (Obsolete)
- Internship report (10+ pages)
 - Required for grade in STAT 540
 - Quality of writing and report gives better grade
 - Must be submitted hard copy and electronically

