West Virginia University Masters of Science in Business Data Analytics

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Department of Management Information Systems
College of Business and Economics

WestVirginiaUniversity.

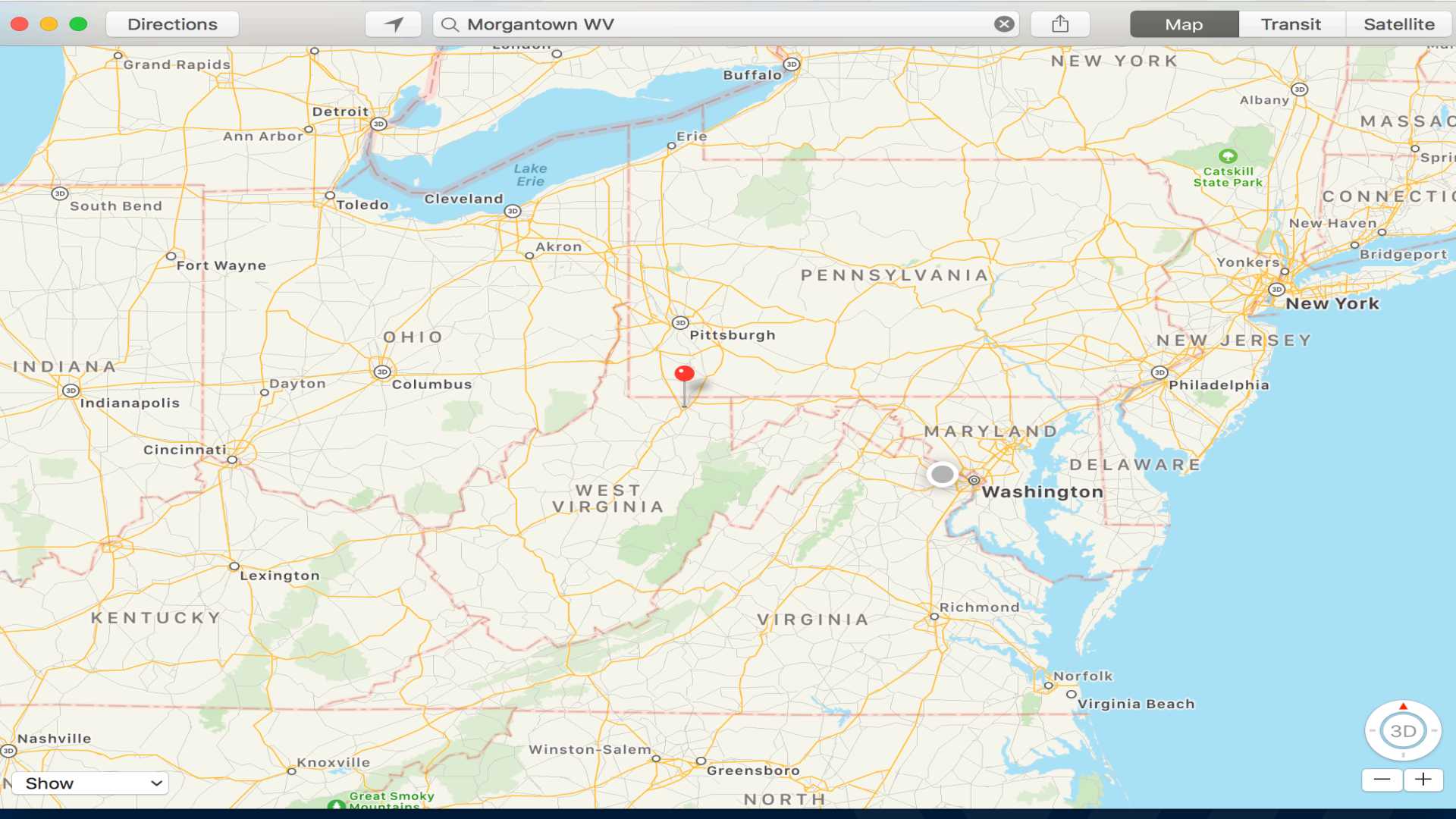
Outline

- Program Overview
- Technology
- Outcomes
- Challenges of Online Education

Our Faculty

Our People

2017 Inaugural
Graduating Class
M.S. BUSINESS
DATA ANALYTICS
WestVirginiaUniversity.
WEST VIRGINIA
MOUNTAINEERS


Directions
Morgantown WV
Map
Transit
Satellite
Grand Rapids
Detroit
Ann Arbor
Buffalo
Erie
Lake Erie
Cleveland
Toledo
South Bend
Fort Wayne
Akron
NEW YORK
Albany
Catskill State Park
CONNECTI
New Haven
Bridgeport
Yonkers
New York
PENNSYLVANIA
Pittsburgh
OHIO
INDIANA
Dayton
Columbus
Indianapolis
Cincinnati
NEW JERSEY
Philadelphia
MARYLAND
DELAWARE
Washington
WEST VIRGINIA
Lexington
KENTUCKY
VIRGINIA
Richmond
Norfolk
Virginia Beach
Nashville
Knoxville
Winston-Salem
Greensboro
Great Smoky Mountains
NORTH
Show
3D

Quick Info on WVU

- An R1 and Land Grant Institution
- Student Body: 28k Students (15k from in-state)
- Tuition
  - In-State: $4,800 per semester
  - Out-of-State: $11,800 per semester
- Member of the Big 12 Conference

Program Structure

- 30 Credit Program– 10 Courses
  - Data Science
  - Operations Management/Research
  - Business Impact and Soft Skills
- Hybrid Program (2 Residencies Required)
- 12 and 24 Month Options
- 8 week courses

Fall			Spring		Summer
August	Term 1	Term 2	Term 1	Term 2	Term 1
Orientation/ Bootcamps	BUDA 525: Statistical Methods I	BUDA 515: Data Collection and Ethics	BUDA 530: Statistical Methods II	BUDA 535: Data Mining	BUDA 550: Data Visualization
	BUDA 510: Business Intelligence	BUDA 520: Database Management	BUDA 540: Decision Analytics	BUDA 545: Simulation Methods	BUDA 555: Capstone/ Practicum

- Built as a 5+5 Model for Other Online Programs with a “Data Science Core”
- “Create critical thinkers and communicators …”

Program Structure

- Maximum 35 students in each course
- Asynchronous Delivery
  - Not just filmed classroom lectures
- Team Based Approach
  - Decided and introduced at Orientation
  - Matches skill sets
  - 4-5 members
- 1 Year Program-- Approximated $22k
- 2 Year Program-- Approximately $29k

Institutional Thoughts

- Capstone Projects
  - Secure Data
  - Dual Authentication
- Instructional Quality
  - How do we guarantee it?
  - How do we maintain it?
  - DS is a shifting landscape
- Faculty Recruitment/Allocation
- Culture
  - Across College and University

Program Technology

cloudera

GitHub

Teaching Specific Cluster

WestVirginiaUniversity.

AwardU

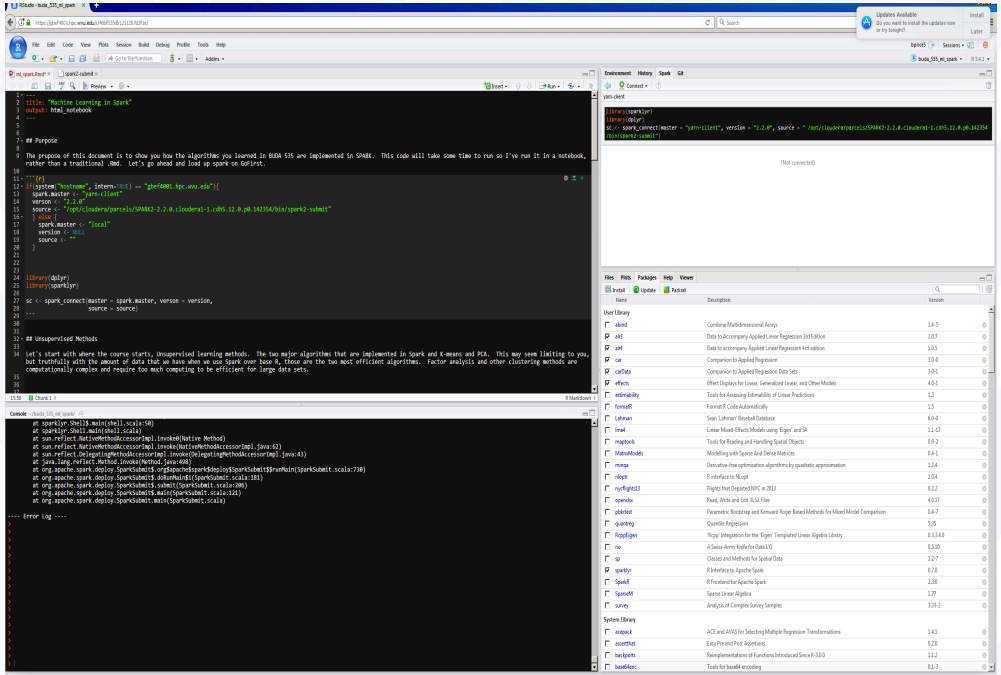
EMPLOYEE RECOGNITION PROGRAM

HOME WINNERS

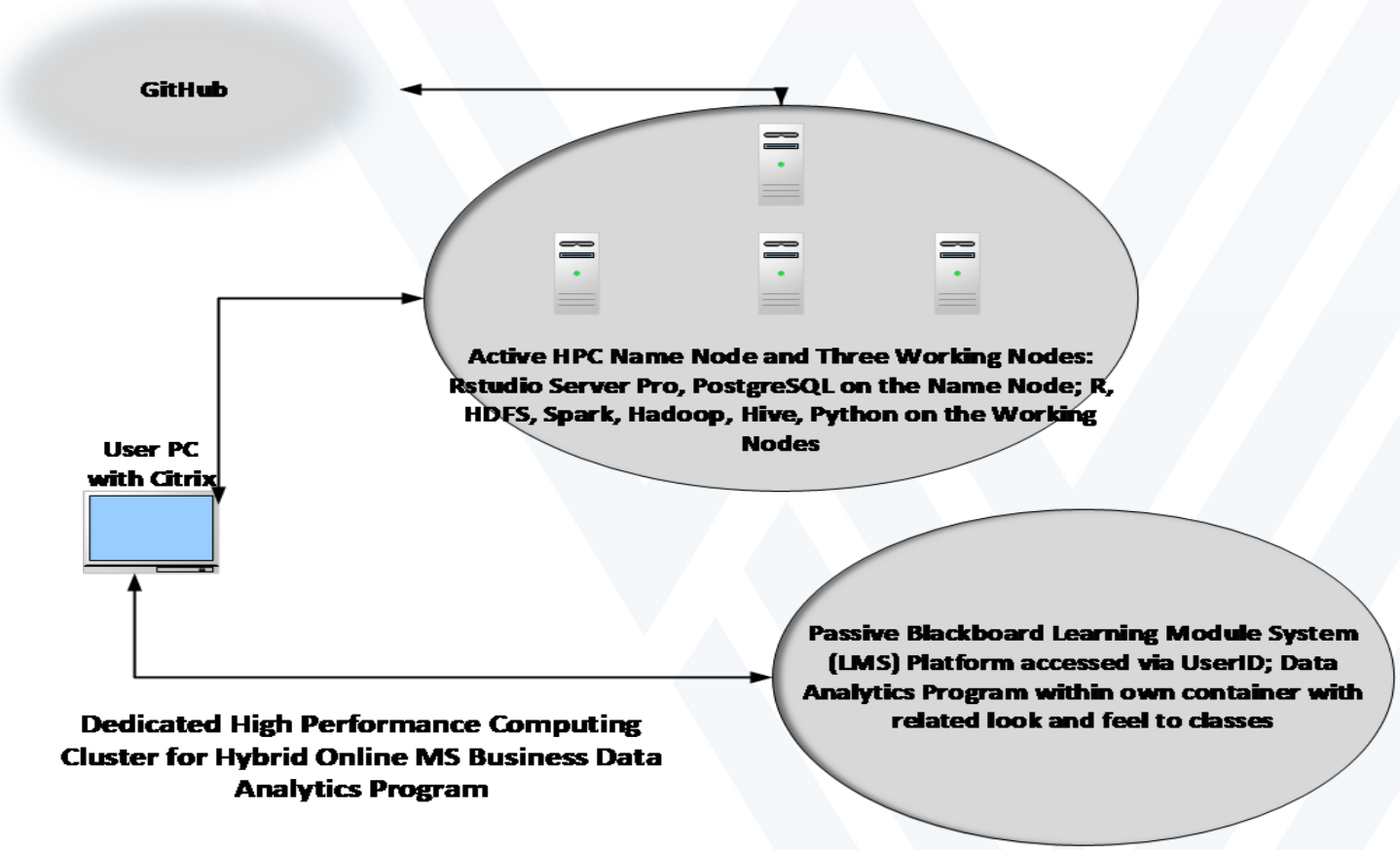
Nathan Gregg, Research Computing

Role Model, 4th quarter 2017

Bio For his dedication and support in launching a new academic program that depends on the High Performance Computing cluster, Nathan Gregg is the latest RockIT Award winner for Role Model. Nate is not only hands-on with the technology, but also works to



WestVirginiaUniversity.


GitHub
Active HPC Name Node and Three Working Nodes: Rstudio Server Pro, PostgreSQL on the Name Node; R, HDFS, Spark, Hadoop, Hive, Python on the Working Nodes
User PC with Citrix
Passive Blackboard Learning Module System (LMS) Platform accessed via UserID; Data Analytics Program within own container with related look and feel to classes
Dedicated High Performance Computing Cluster for Hybrid Online MS Business Data Analytics Program

Outcomes

- How do we measure outcomes?
  - Student placement of those actively looking
  - Learning objectives

- Placement Data
  - 2017-2018 admissions: All students using skill in full time position by December ‘17
  - 2016-2017 admissions: All students using skill set in full time position within 2 months of graduation (Oct ‘17)

Ryan Lynch • 1st

Analytics and Reporting Leader, Enterprise Asset Management at IBM

Durham, North Carolina

Message More...

IBM

West Virginia University

See contact info

See connections (276)

Kip Comack, PMP • 1st

Deputy Lab Manager, Advanced Data Analysis & Mining Lab

Washington D.C. Metro Area

Message | More...

CACI International Inc

West Virginia University

See contact info

See connections (337)

I am a business-focused data analytics professional with foundations in project and operations management. I add value by bringing teams together and bridging gaps in technical skills, business processes, and communication so that we can achieve our goals. Specialties: Data Analysis, Modelin...

Kayli Matala • 1st

Portfolio Data Analyst at United Bank Inc

Morgantown, West Virginia

Message More...

United Bank Inc

West Virginia University

See contact info

See connections (355)

Erik Ferguson • 1st

Associate Data Scientist at Highmark Health Enterprise Analytics

Pittsburgh, Pennsylvania

Message | More...

Highmark Health

West Virginia University

See contact info

See connections (77)

Carl Burkland • 1st

SVP, Chief Technology Officer at WesBanco

Wheeling, West Virginia Area

Message More...

WesBanco

West Virginia University

See contact info

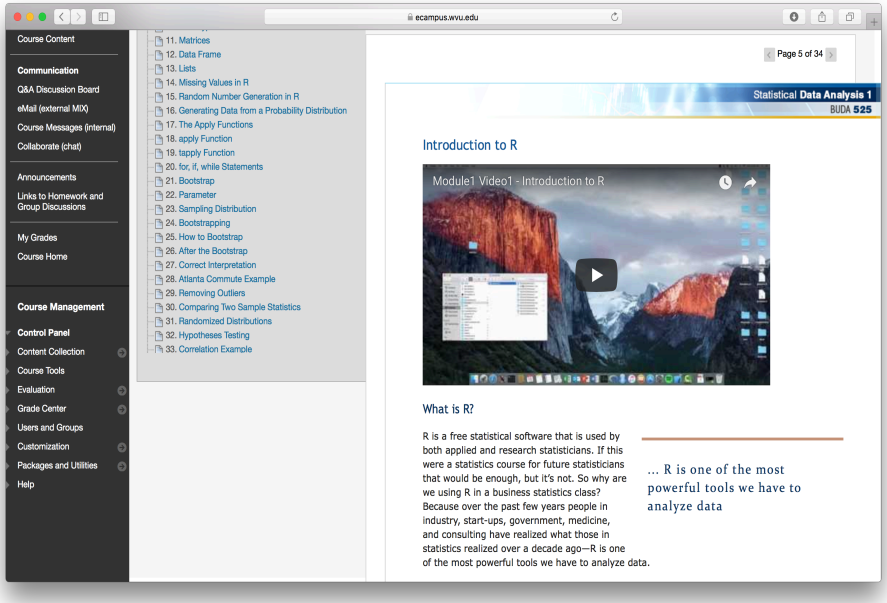
See connections (443)

Placement

- Dev Ops Engineer at DoD Contractor
- Data Scientist at Government Contractor
- Senior Scientist Government Contractor
- Data Analysts at Regional Banks
- Manager of Portfolio Analytics, International Pharmaceutical Company
- Many Others…

Differences of Online

- Student Experience
  - Personal Connections
  - Technology
  - Course Quality
- Faculty Experience
  - Course Development
  - In-Load of Overload?
  - Instructional Designers?



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Course Work
Course Information and Syllabus
Course Content
Communication
Q&A Discussion Board
eMail (external MIX)
Course Messages (internal)
Collaborate (chat)
Announcements
Links to Homework and Group Discussions
My Grades
Course Home
Course Management
Control Panel
Content Collection
Course Tools
Evaluation
Grade Center
Users and Groups

Course Information and Syllabus

Introduction to this Course

Instructor Dr. Brad Price.

Syllabus

Policies & Support Resources

Challenges of Online

- Course Management Systems
  - Preparation Overhead
  - Can it deal with the evolution of Data Science?
- Alignment of Curriculum
  - Course Development
  - Within year updates of systems
- Technology Access and Support

Challenges of Online

- Student and Faculty Availability
  - Working Professionals
  - Time Zones
  - Partner Organizations
- Student Priorities
  - Adult Learners

Thank You!

Any Questions?

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