



**Board of Trustees  
Educational Programs Committee  
January 13, 2017, 11:15 a.m. – 12:00 p.m.  
FAIRWINDS Alumni Center  
Conference call-in phone #800-442-5794, passcode 463796**

**AGENDA**

- |   |  |
|---|--|
| <b>I. CALL TO ORDER</b>   | Robert Garvy<br><i>Chair of Educational Programs Committee</i>   |
| <b>II. ROLL CALL</b>  | Susan Tracy<br><i>Senior Administrative Assistant</i>  |
| <b>III. MEETING MINUTES</b>   | Chair Garvy  |
| • <a href="#">Approval of November 17, 2016, Educational Programs Committee meeting minutes</a> |  |
| <b>IV. NEW BUSINESS</b>   | Chair Garvy  |
| • Provost's update  | A. Dale Whittaker<br><i>Provost and Executive Vice President</i>   |
| - Faculty Spotlight:<br>UCF Natural Language Processing Group<br><a href="#">(INFO-1)</a>       | Dr. Fei Liu<br><i>Assistant Professor<br/>Department of Computer Science<br/>College of Engineering and Computer Science</i> |
| - Path to Preeminence - Research Update<br><a href="#">(INFO-2)</a>                             | A. Dale Whittaker  |
| - Breaking Down Student Debt <a href="#">(INFO-3)</a>   | A. Dale Whittaker  |
| <b>V. OTHER BUSINESS</b>  |  |



**MINUTES**  
**Educational Programs Committee**  
**University of Central Florida**  
**Board of Trustees**

November 17, 2016

*FAIRWINDS* Alumni Center

Conference call-in #800-442-5794, passcode 463796

**CALL TO ORDER**

Trustee Robert Garvy, chair of the Educational Programs Committee, called the meeting to order at 11:00 a.m. Committee members Ken Bradley, Chris Clemente, and Keith Koons were present. Also present were Board of Trustees Chairman Marcos Marchena and trustees Clarence H. Brown III, Joseph Conte, Alex Martins, and David Walsh.

**MINUTES**

The minutes from the September 15, 2016, meeting were approved as written.

**NEW BUSINESS**

Conferral of Degrees (EPC-1)

Dale Whittaker, Provost and Executive Vice President, requested approval for the Fall 2016 conferral of degrees. A motion to recommend the conferral of degrees to the Board of Trustees was unanimously approved.

Amendment to University Regulation UCF-2.009 Admission of International Students (EPC-2)

Cynthia Young, Vice Provost for Faculty Excellence and International Affairs and Global Strategies, requested approval to amend University Regulation 2.009, which incorporates admission requirements for international students. In addition to university admission requirements, international students whose native language is not English must show proficiency by meeting additional requirements. The proposed amendments to this regulation add multiple new ways to meet the requirements. A motion to recommend the amended regulation to the Board of Trustees was unanimously approved.

2016-17 Tenure with Hire (EPC-3)

Whittaker discussed the process for granting tenure to individuals who have come from outside of the university and whose credentials have been reviewed using the university's standards for tenure. Tenure with hire was requested for Dr. Keisha Hoerner, Nicholson School of Communication. A motion to recommend the tenure with hire recommendation to the Board of Trustees was unanimously approved.

Provost's Update

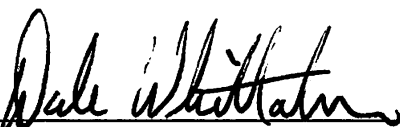
Whittaker provided the following updates

- Faculty Spotlight: Bradley J. Willenberg (INFO-1) – Whittaker introduced Bradley Willenberg, assistant professor of medicine. Willenberg presented a short summary describing two of his main research project 1) a project focused on building a transplantable kidney and 2) a project developing new mosquito surveillance tools with colorimetric readouts.

- National Academy of Inventors - The UCF launched its chapter of the National Academy of Inventors. Twenty-nine faculty members were inducted into the first class. Collectively, they hold 541 issued patents, 64 licenses, and 20 startup companies.
- DirectConnect Annual President's Meeting – Whittaker reported on the recent DirectConnect annual president's meeting and shared plans to meet regional and state demand for more nurses with the consortium's recommendation to pursue additional nursing degrees at several DirectConnect partner state colleges.
- Collective Impact Strategic Planning Update (INFO-2) – Whittaker reported on the institutionalization of the Collective Impact Strategic Plan, including annual provost forums to track the university's progress in key metrics. He specifically addressed research and graduate programs, as well as faculty excellence.
- Forward by Degrees (INFO-3) – Whittaker shared a video from the university's submission to the \$100 million MacArthur Foundation challenge, focused on eliminating income as a predictor of college success. He cited recent data showing an increasing gap in low- and high-income students' graduation rates, and he spoke about UCF's work with other institutions in the University Innovation Alliance to help close this gap.

Trustee Garvy adjourned the joint committee meeting at 11:31 a.m.

Respectfully submitted:

  
A. Dale Whittaker  
Provost and Executive Vice President

12/19/2016  
Date

**ITEM: INFO-1**

**EDUCATIONAL PROGRAMS COMMITTEE**  
*University of Central Florida*

**SUBJECT:** UCF Natural Language Processing Group

**DATE:** January 13, 2017

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For information only.

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**Supporting documentation:** Attachment A: UCF Natural Language Processing Group

**Prepared by:** Dr. Fei Liu, Assistant Professor Department of Computer Science  
College of Engineering and Computer Science

**Submitted by:** A. Dale Whittaker, Provost and Executive Vice President

## UCF Natural Language Processing Group



**Dr. Fei Liu**

**Assistant Professor  
Department of Computer Science  
College of Engineering and Computer Science**

**UCF Board of Trustees  
Educational Programs Committee  
January 13, 2017**

INFO-1: Attachment A



## **A Brief Introduction to Natural Language Processing (NLP)**

- **NLP is a subfield of computer science concerned with the interactions between computers and human languages**
- **NLP has seen considerable success in recent years, e.g., Google and Facebook Translate, Apple's Siri, Amazon's Echo, Microsoft's Cortana and IBM's Watson which defeated human champions in the quiz show jeopardy!**



## **Achievement Highlights**

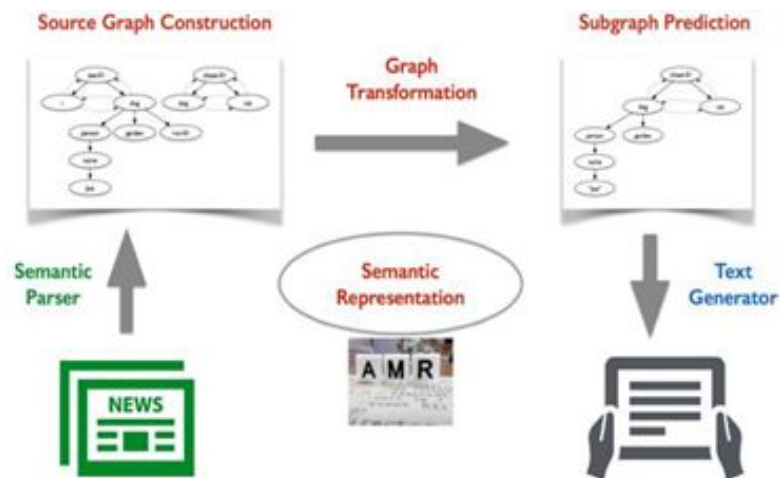
- **best paper finalist at the 25<sup>th</sup> International World Wide Web Conference, 2016 (5 out of 727=0.7% research submissions)**
- **served as an area chair for the 2015 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies**
- **invited to attend MIT Rising Stars in Electrical Engineering and Computer Science (an academic career workshop for nearly 60 top electrical engineering and computer science women scholars in academia), 2015**
- **advised an undergraduate student in 2016 who co-authored a paper at the Association for the Advancement of Artificial Intelligence 2016 Fall Symposium on Privacy and Language Technologies**



# Our Research

## Natural Language Semantics

## Automatic Summarization



### • Student discussion forums

#### Course at a Glance

- 10 weeks of study
- 15-20 hours/week
- English

#### Instructors



Daphne Koller  
Stanford University

#### Categories

Computer Science: Artificial Intelligence

1 LinkedIn - Lets get connected to each other  
Started by Kaushik Acharya - Last post by Niko Garslin (2 years ago)

2 Dynamic Influence Diagrams...  
Started by Nurali Vihari - Last post by Nurali Vihari (3 years ago)

3 Cannot figure out what is the point of this piece of code in EliminateVar  
Started by Saeed Farhand - Last post by Saeed Farhand (3 years ago)

4 Have you seen Prof. Koller's TED speech?  
Started by Morris - Last post by Rich Seier (3 years ago)

5 Week 7 - Bayesian Prediction  
Started by Anonymous - Last post by Anonymous (3 years ago)

6 Markov Blanket has the wrong misleading definition in PA5  
Started by Özgür Aytekin - Last post by Özgür Aytekin (3 years ago)

7 Is the certificate sending finished?  
Started by Anonymous - Last post by Anonymous (3 years ago)

8 I need my certificate! TA's could you please give us an update??  
Started by Anonymous - Last post by Pang Wei Koh (3 years ago)

9 New matlab warning... WEEK 5 fun WARNING!  
Started by Anonymous - Last post by Timothy Vaughan (3 years ago)

1 2 3 ... 104 105 -- Next





# Our Research

## Policy Document Understanding

Search this policy

**shutterstock.com**

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**Answer the following questions**

[Click here to view the instructions again](#)

**Question:**  
Does the policy state that the website might share **current location information** with **third parties**?

[Select paragraph\(s\) that apply and click](#) [Remove last selection](#)

Find the answer in the document, highlight the sentences containing the answer, and click the blue button above to paste the text here

- No sharing** - the policy states that the website will not share **current location information** with **third parties**.
- Sharing for core service only** - the policy states that the website might share current location information with third parties, but only for the purpose of **providing a core service**.
- Sharing for other purpose (with consent)** - the policy states that the website might share current location information with third parties for other purposes, but only if the website has explicit permission/consent from the user.
- Sharing for other purpose (without consent)** - the policy states

## Social Media Analytics

Summarizing Sports Games Using Twitter Data Streams

Home About Contact

Heat Vs. OKC on 6/12/2012 [Reset](#)

Jun 21 21:35  
Jun 21 21:26  
1301 tweets

[Heat](#) [Miami](#)

HEAT >>>>> OKC at 21:26  
Miami heat! at 21:27  
Watching the game Let's go #HEAT9 at 21:25

Jun 21 21:27  
297 tweets

[Isaka](#)

Isaka A Cute African at 21:26  
Isaka can't guard LeBron or Wade what is he doing? at 21:26  
Even Perkins & Isaka couldn't stop Bosh tho at 21:27

Jun 21 21:27  
514 tweets

[James,Lebron,james](#)

Lebron James deserves a ring doc at 21:26  
I don't hate LeBron anymore at 21:26  
Lebron and bosh at 21:27

Jun 21 21:25  
108 tweets

[chalmers](#)

CHALMERS CARRIED LMFAO at 21:25  
Watch that carry Chalmers at 21:25  
Chalmers really can't run a fast break lmao at 21:25

Jun 21 21:24  
137 tweets

[durant](#)

Good move Durant at 21:24  
Lebron really cant guard Durant at 21:24  
Durant ain't playing scared tonight at 21:24

Jun 21 21:24  
287 tweets

[wade](#)

Nice shot Wade at 21:25  
only respect Wade from Heat at 21:25

**Twitter hashtags**

#Heat, #Heat, #Miami, #Miami, #Heat  
#Isaka, #Isaka, #Isaka  
#chalmers  
#durant  
#Lebron  
#Isaka  
#James, #Lebron, #Lebron, #James  
#Isaka, #Isaka, #Isaka  
#Isaka  
#chalmers  
#wade  
#wade



## **Our Research**

**The UCF Natural Language Processing group conducts research in the areas of text summarization, language generation, social media analytics, natural language semantics, and machine learning techniques for natural language processing.**

**Much of the technologies involve probabilistic models, machine learning, and deep learning as applied to large-scale text data.**

**UCF NLP Group Web site: <http://www.nlp.cs.ucf.edu>**

**ITEM: INFO-2**

**EDUCATIONAL PROGRAMS COMMITTEE**  
*University of Central Florida*

**SUBJECT:** Path to Preeminence - Research Update

**DATE:** January 13, 2017

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For information only.

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**Supporting documentation:** Attachment A: Path to Preeminence - Research Update

**Prepared by:** Christine Dellert, Assistant Vice President for Strategic Communications & Marketing

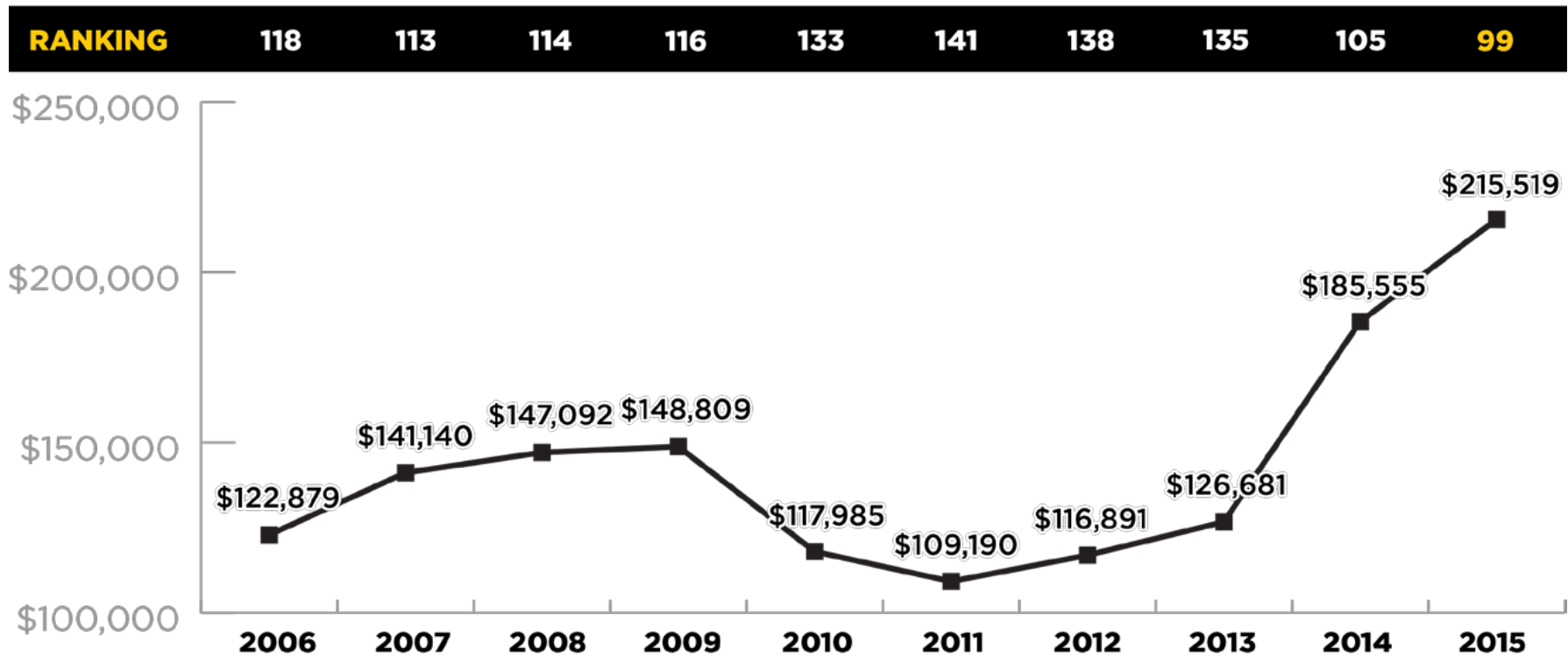
**Submitted by:** A. Dale Whittaker, Provost and Executive Vice President

# Path to Preeminence: Research Update

Attachment A

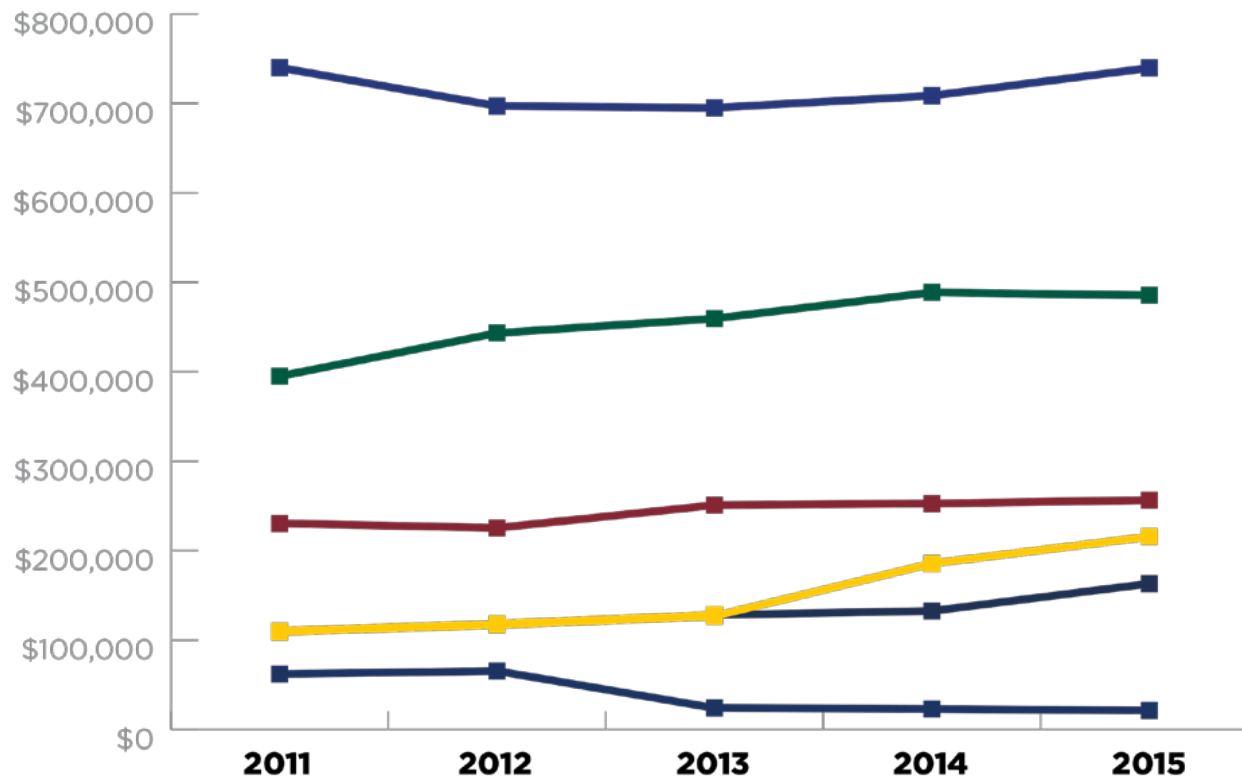


# UCF's NSF R&D Expenditures



SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Higher Education R&D Survey

# NSF R&D Expenditures Comparison



## 2015 RANKINGS

**UF** 25

**USF** 45

**FSU** 83

**UCF** 99

**FIU** 119

**FAU** 259

**SOURCE:** National Science Foundation, National Center for Science and Engineering Statistics, Higher Education R&D Survey

# UCF's Path to Preeminence

MEASURE	BENCHMARK	2016
Average GPA and SAT Score	4.0 GPA / 1800 SAT	4.0 GPA / 1850 SAT
Public University Ranking (in more than one national ranking)	Top 50 in 2 or more publications	1
Freshman Retention Rate (full-time FTIC)	GTE 90%	89%
6-year Graduation Rate (full-time FTIC)	GTE 70%	70%
National Academy Members	6	1
Total Annual Research Expenditures (Science & Engineering only)	GTE \$200M	\$170M
Total Annual Research Expenditures in Diversified Non-Medical Sciences (Science & Engineering only)	GTE \$150M	\$168M
National Ranking in Research Expenditures*	5 in Top 100	7
Patents Awarded (over 3 year period)	GTE 100	174
Doctoral Degrees Awarded Annually	GTE 400	423
Number of Post-Doctoral Appointees	GTE 200	52
Endowment Size	\$500M	\$151M

\*In at least 5 S&E disciplines as reported by NSF (includes public and private institutions)



**ITEM: INFO-3**

**EDUCATIONAL PROGRAMS COMMITTEE**  
*University of Central Florida*

**SUBJECT:** Breaking Down Student Debt

**DATE:** January 13, 2017

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For information only.

---

**Supporting documentation:** Attachment A: Breaking Down Student Debt

**Prepared by:** Christine Dellert, Assistant Vice President for Strategic Communications & Marketing

**Submitted by:** A. Dale Whittaker, Provost and Executive Vice President



# Breaking Down Student Debt

Attachment A





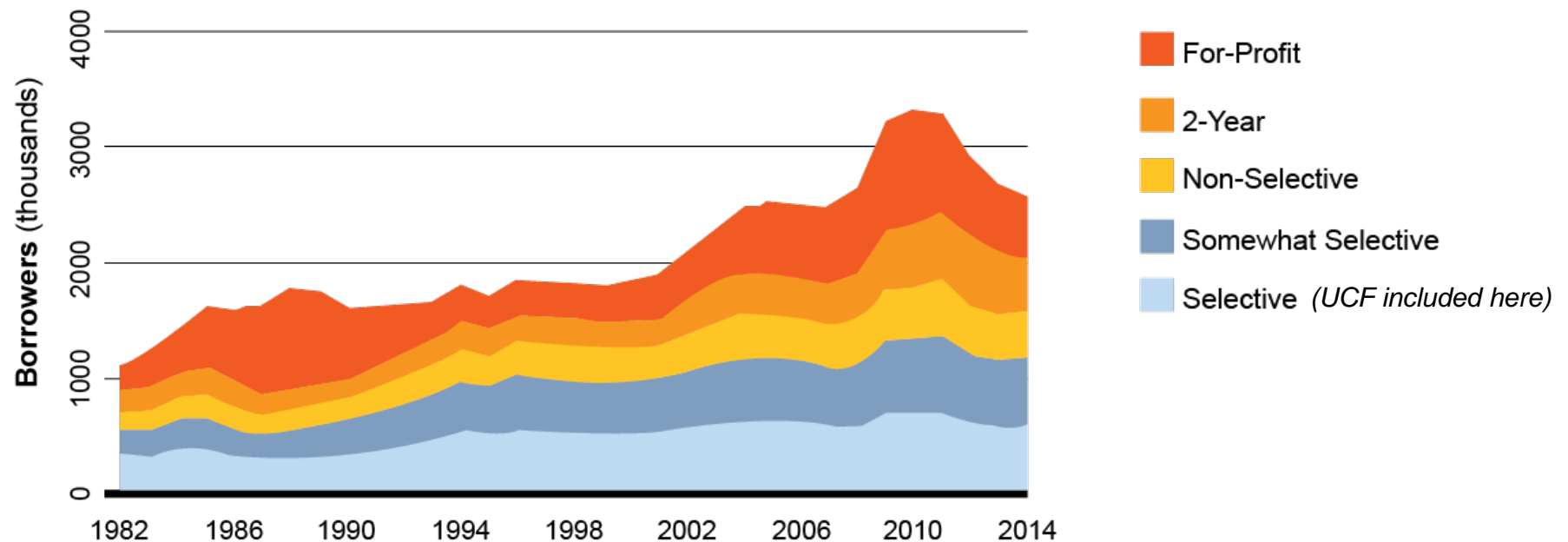
“Millions of Americans who went to college seeking a better future now face crushing debt from student loans...

Today, there is a **student debt class like no other**: about **42 million Americans** bearing **\$1.3 trillion in student debt** that's altering lives, relationships, and even retirement.”

*Consumer Reports*, 2016

# For-Profit and 2-Year Colleges Account for Increase

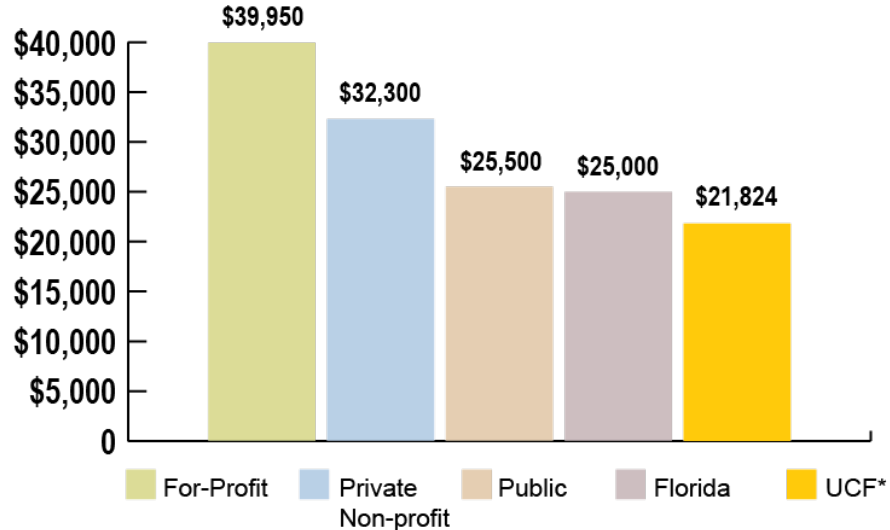
Student borrowing has surged in the past several years, particularly at for-profit and 2-year institutions



**SOURCE:** U.S. Treasury tabulation of National Student Loan Data Systems data from Adam Looney & Constantine Yannelis, "A Crisis in Student Loans?", 2015

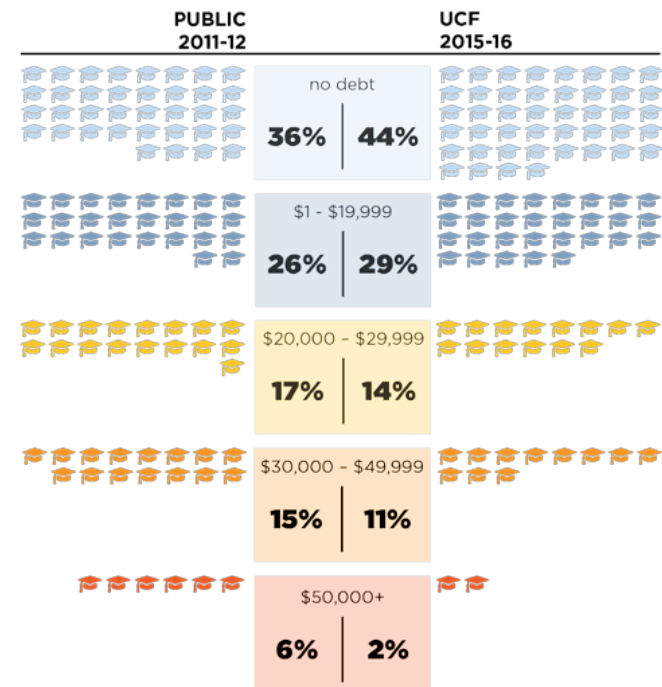
# Student Debt Landscape

## Average Debt at Graduation



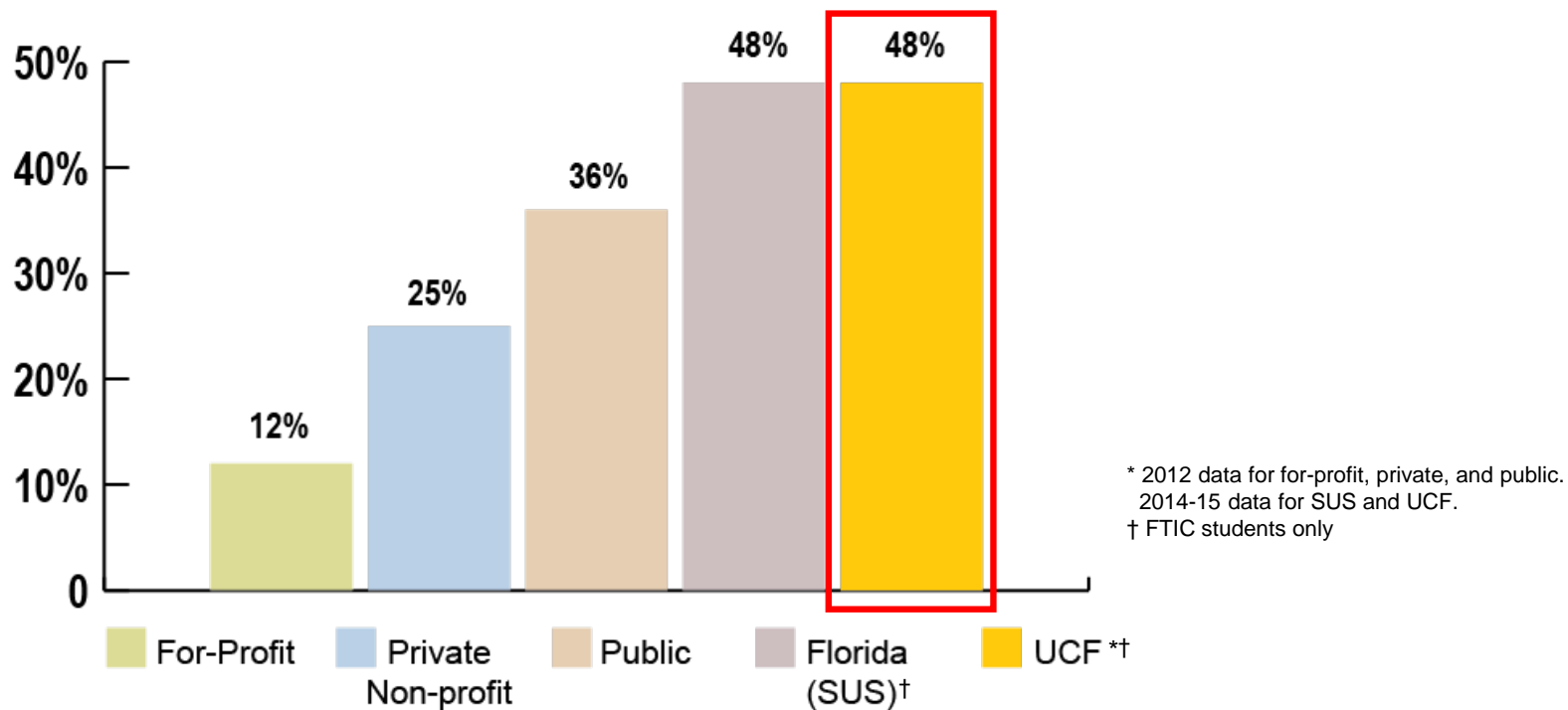
\* 2012 data for for-profit, private, and public. 2014-15 data for Florida and 2016 for UCF.

## Debt Among Students Earning Undergraduate Degree



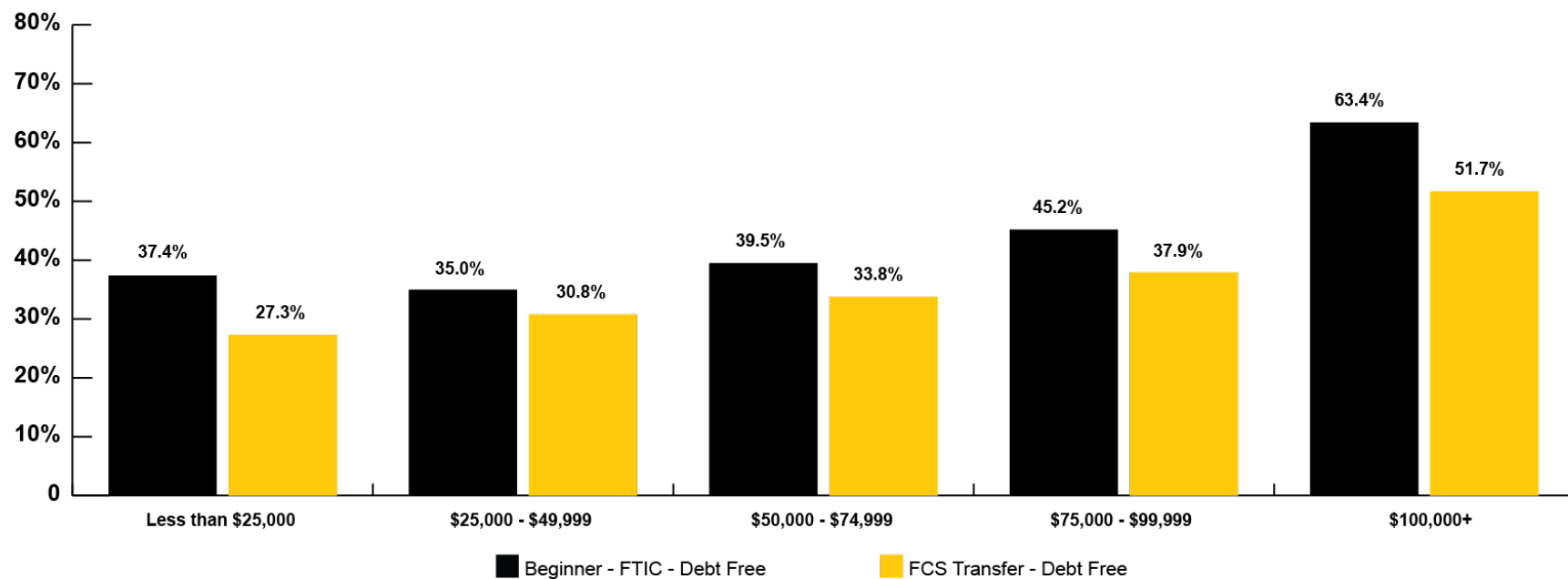
**SOURCES:** Association of Public & Land-Grant Universities, 2016; The Institute for College Access & Success, 2014; UCF Office of Student Financial Assistance, 2016

## Percentage of Students Graduating Without Debt



**SOURCES:** Association of Public & Land-Grant Universities, 2016; The Institute for College Access & Success, 2014; Florida Board of Governors System Survey of University Work Plans, 2016

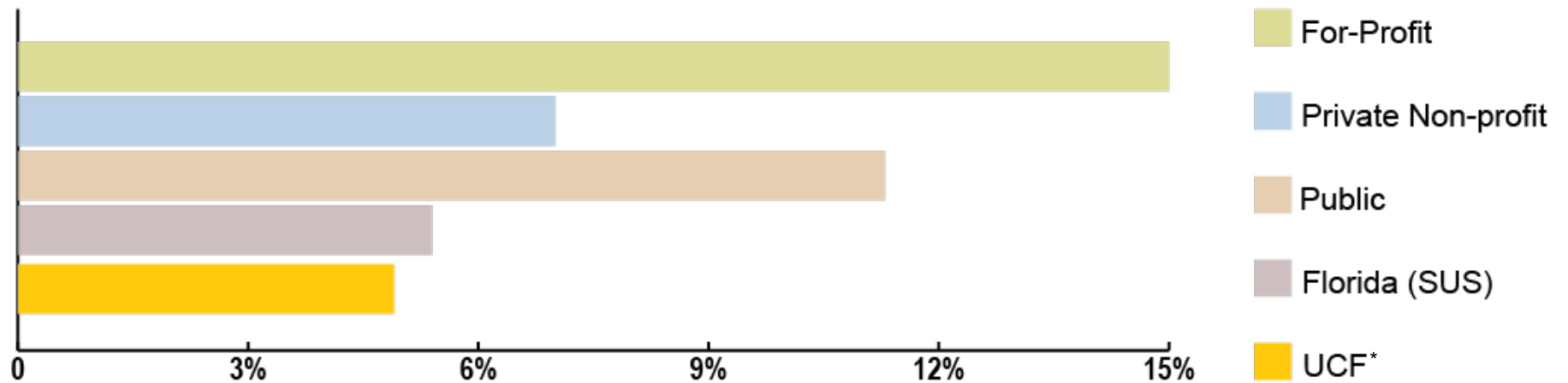
## UCF Students Graduating Without Debt (by Family Income, Summer 2010-Summer 2016)



**SOURCE:** UCF Institutional Knowledge Management, 2016



## Student Loan Default Rates (by Institution Type)



\* 2013 cohort data for for-profit, private, and public, not exclusive to college graduates. 2012-15 preliminary data for SUS and UCF.

**SOURCES:** Association of Public & Land-Grant Universities, 2016; White House Council of Economic Advisors, 2016; Office of Federal Student Aid, 2016; Florida Board of Governors System Survey of University Work Plans, 2016 (Preliminary data)

## Student Debt in Perspective



“Millions of Americans who went to college seeking a better future now face crushing debt from student loans...”



## Student Debt in Perspective

At, UCF **nearly half our undergraduates carry no debt** when they graduate.

For those who do incur debt, the **average amount is less than \$22,000**, with a **reported default rate under 5%** – compared with 11.3% nationally.