

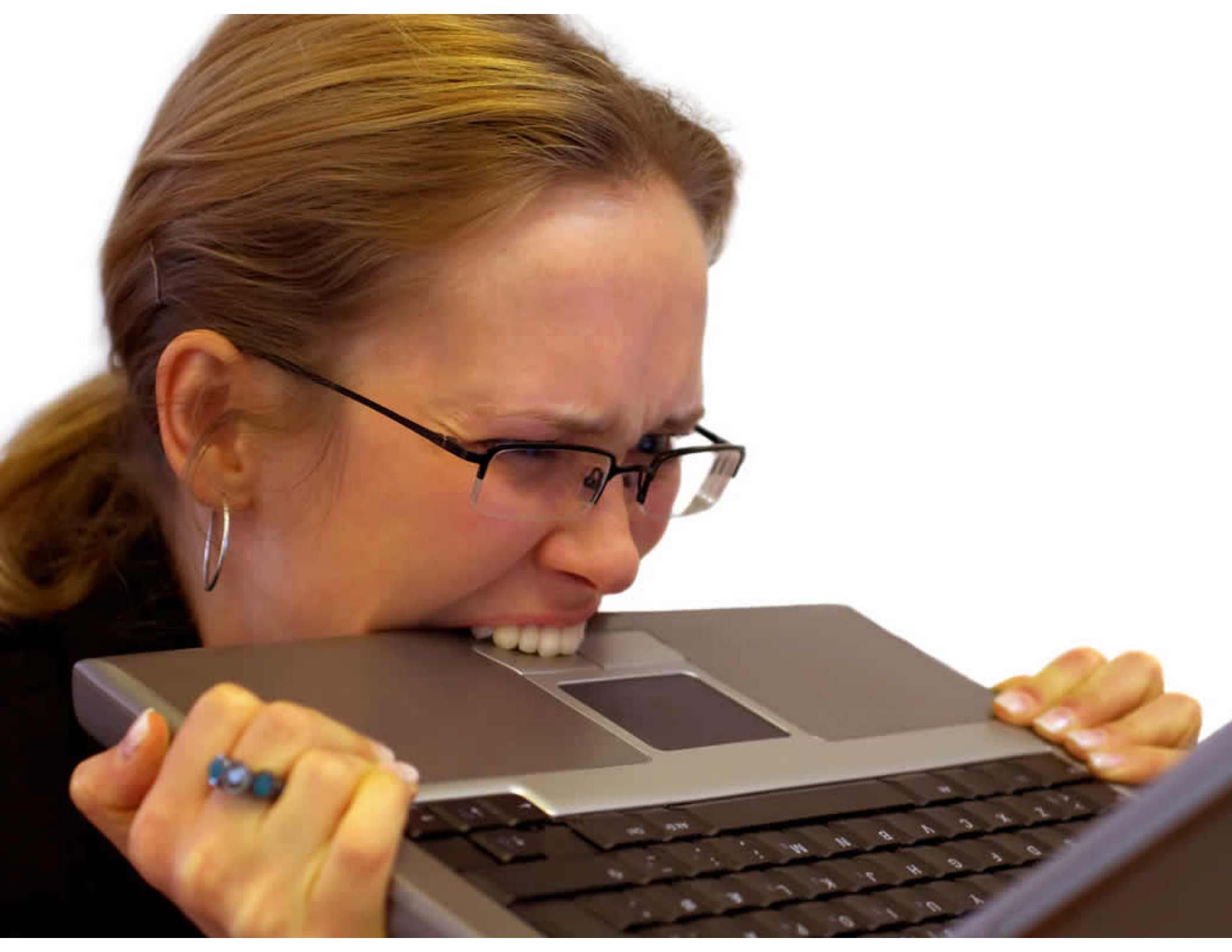


# **Data Science for Data Scientists: How to Get a Job**

**Emily Robinson**  
**September 15, 2016**

# The Data Science Job Search Process

- Almost everyone here has been either on the **job seeker or recruitment side for data science**
- How many of you have felt like this?



# Matching Problem of Companies and Talent

- “**Shortage**” of data science talent
- Yet data scientists spend **months job searching**



# Bridging the Gap ...



**Data Scientists**



**Companies**

**In the Gig Economy**

★ ★ ★ ★ THE ★ ★ ★ ★

# RISE

— OF THE —

## GIG ECONOMY

# The Gig Economy is Already Big

- **53 million freelancers in U.S.** alone
- On one freelancing website alone, more than **\$1 Billion** worth of annual work



# Matching Freelancer to Jobs



# Data

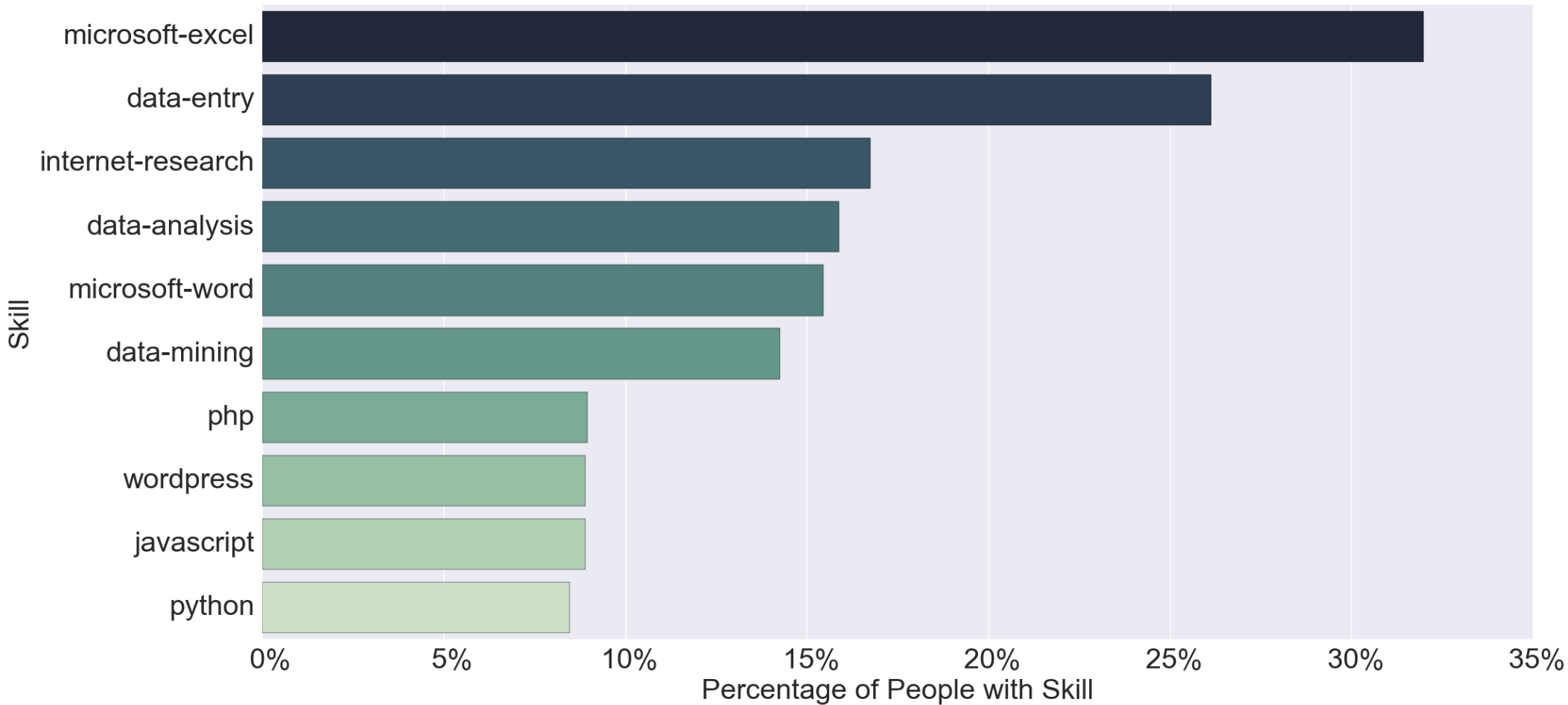
- From **UpWork**, #1 Freelancing Website:
  - **93,000 freelancer profiles**
  - Their **120,000 completed jobs**
  - **3,000 currently listed jobs**

**Who are these  
Freelancers?**

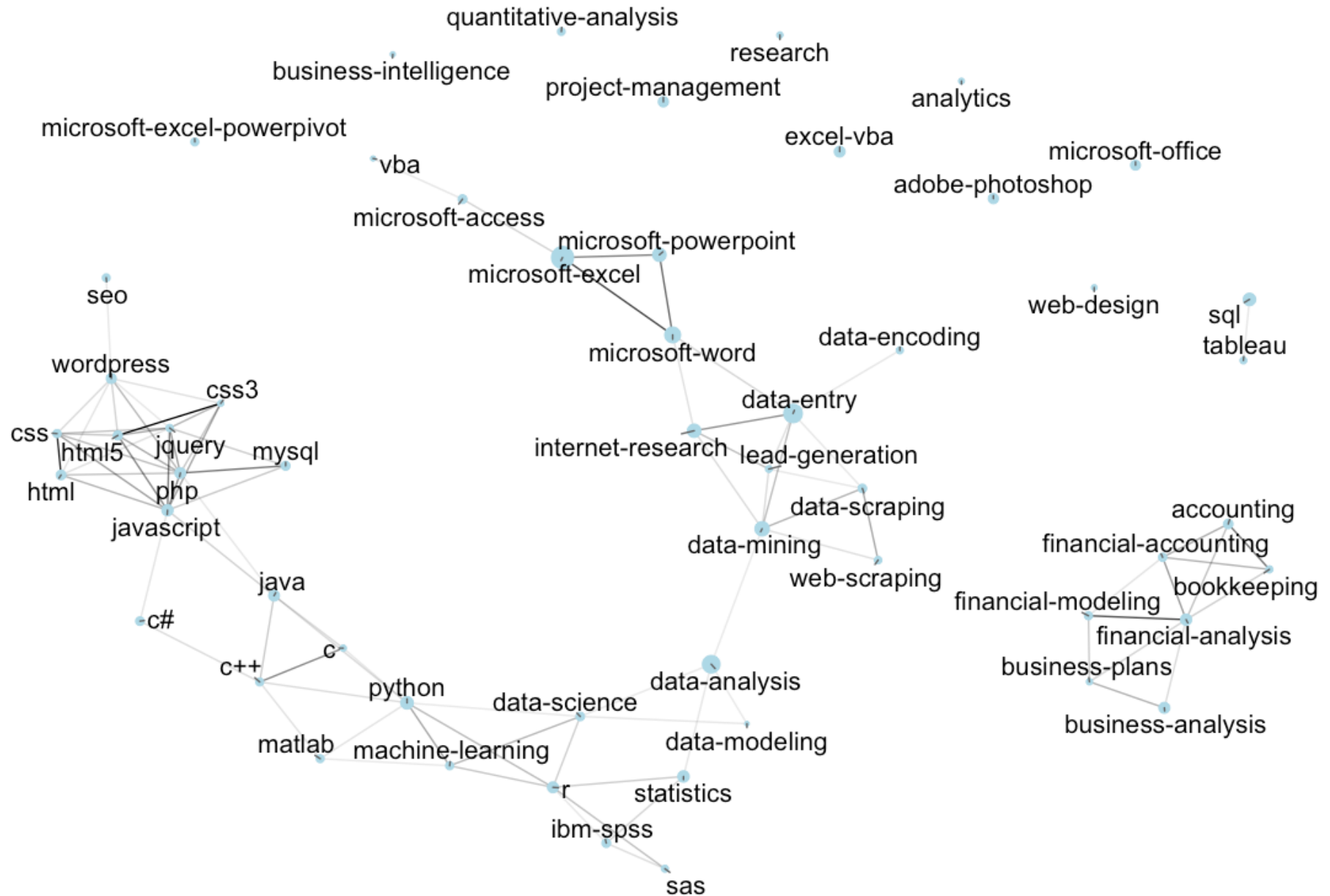
# Demographics

- From **193 countries**
  - Half from U.S., India, or Philippines
- About **2/3** have at least a **bachelor's** or **master's degree**
- Only **~23%** have ever **done an assignment** on UpWork

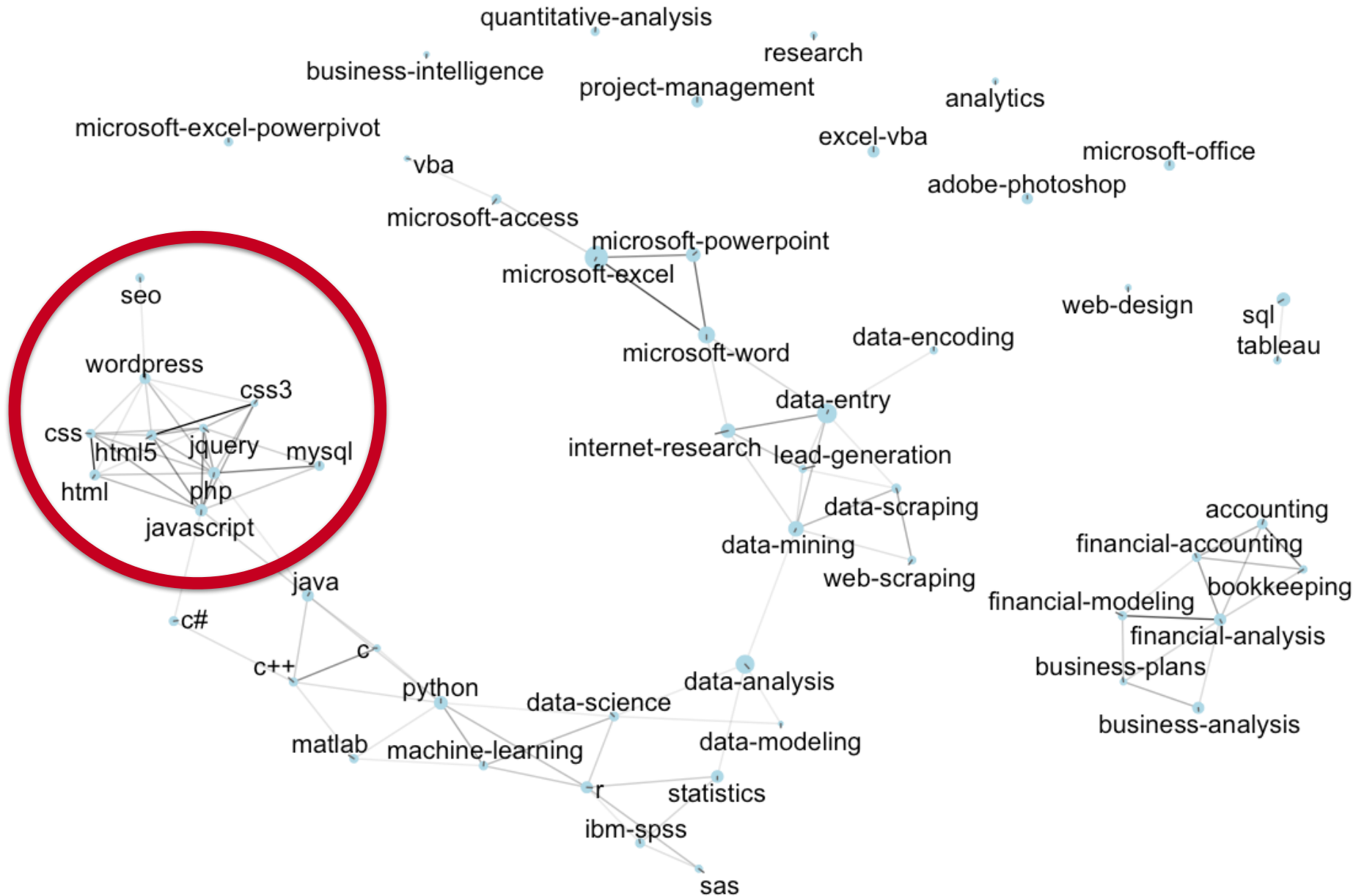
# Prevalence of Skills



# Skill Relationships

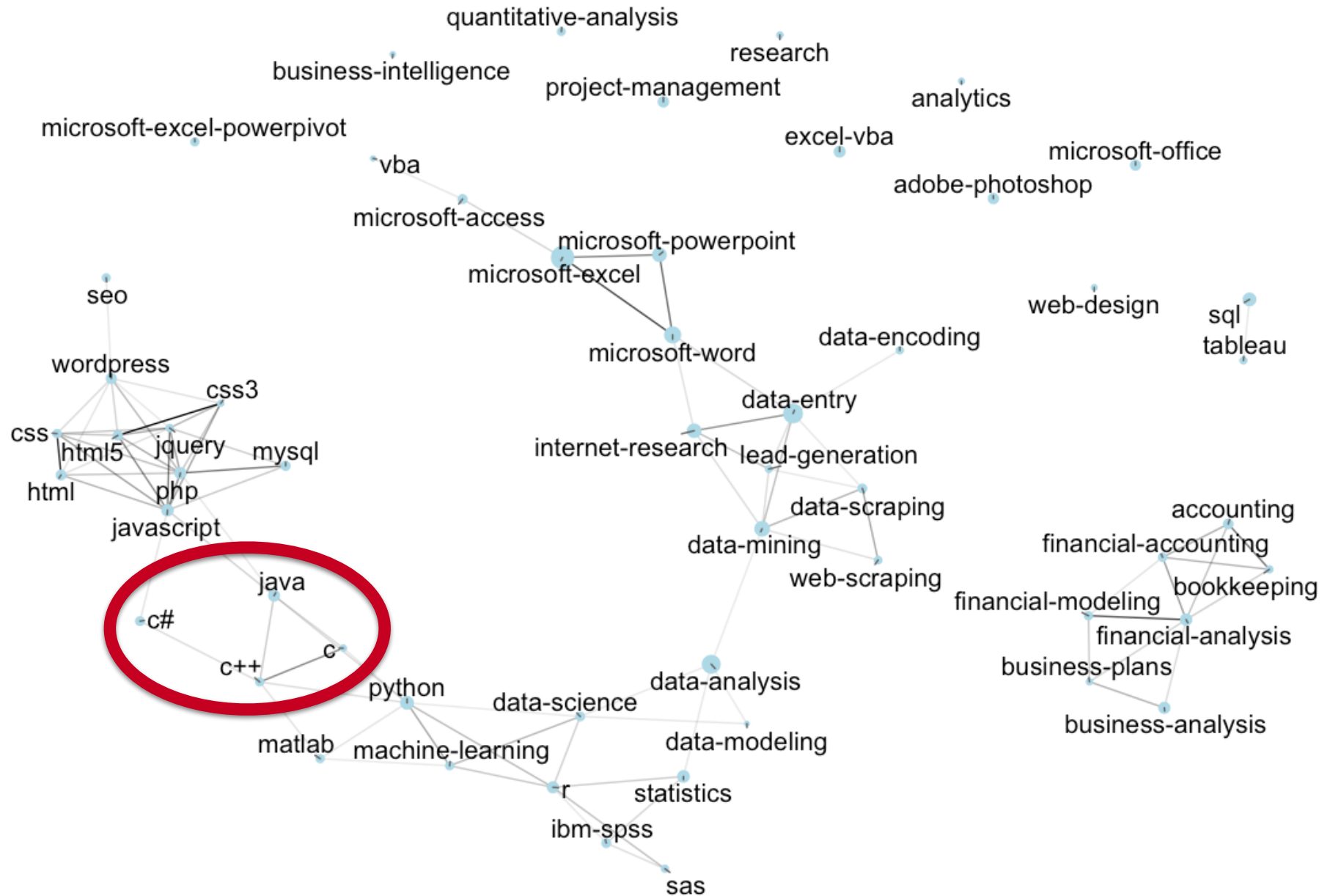


# Front-End Engineers

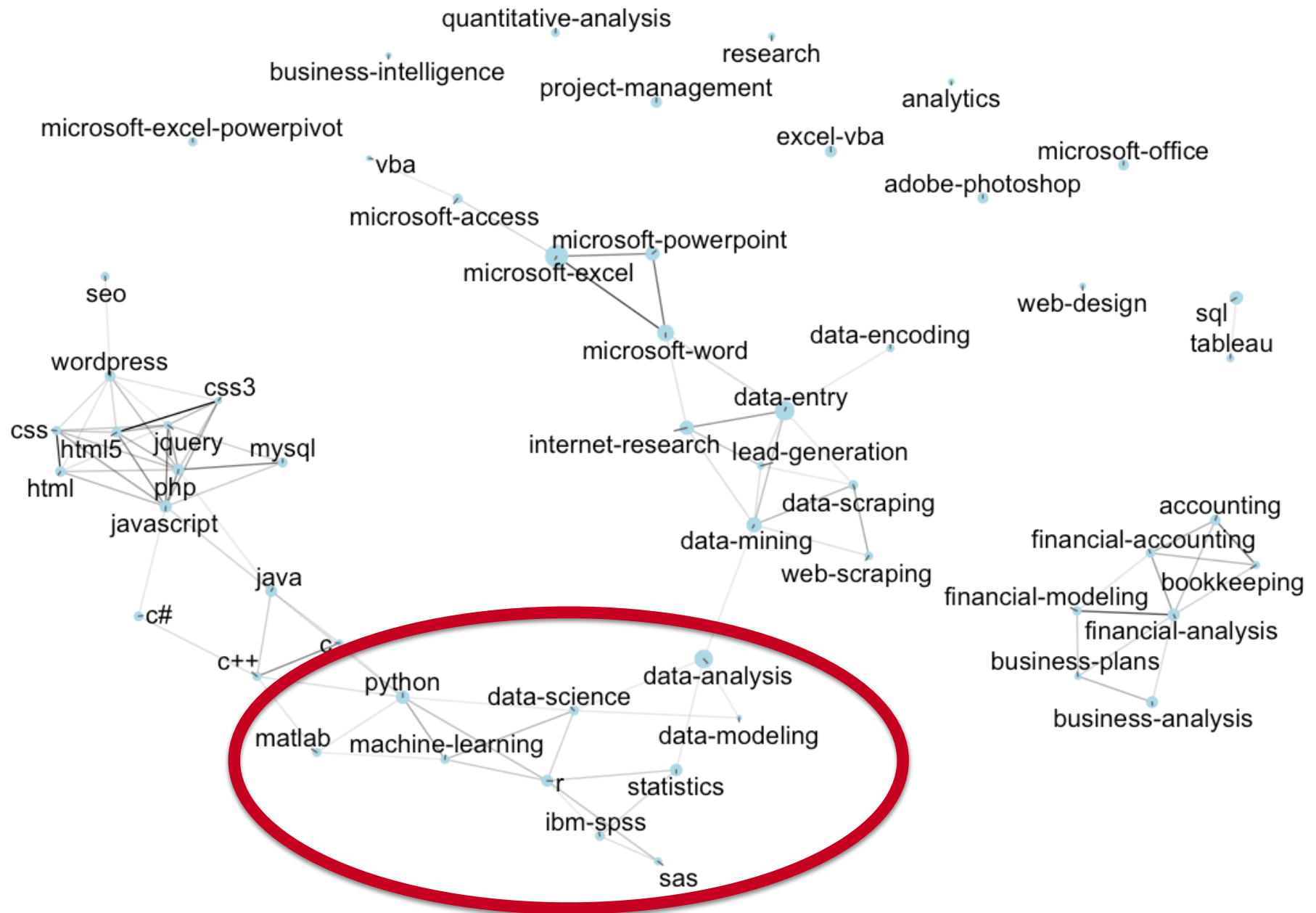




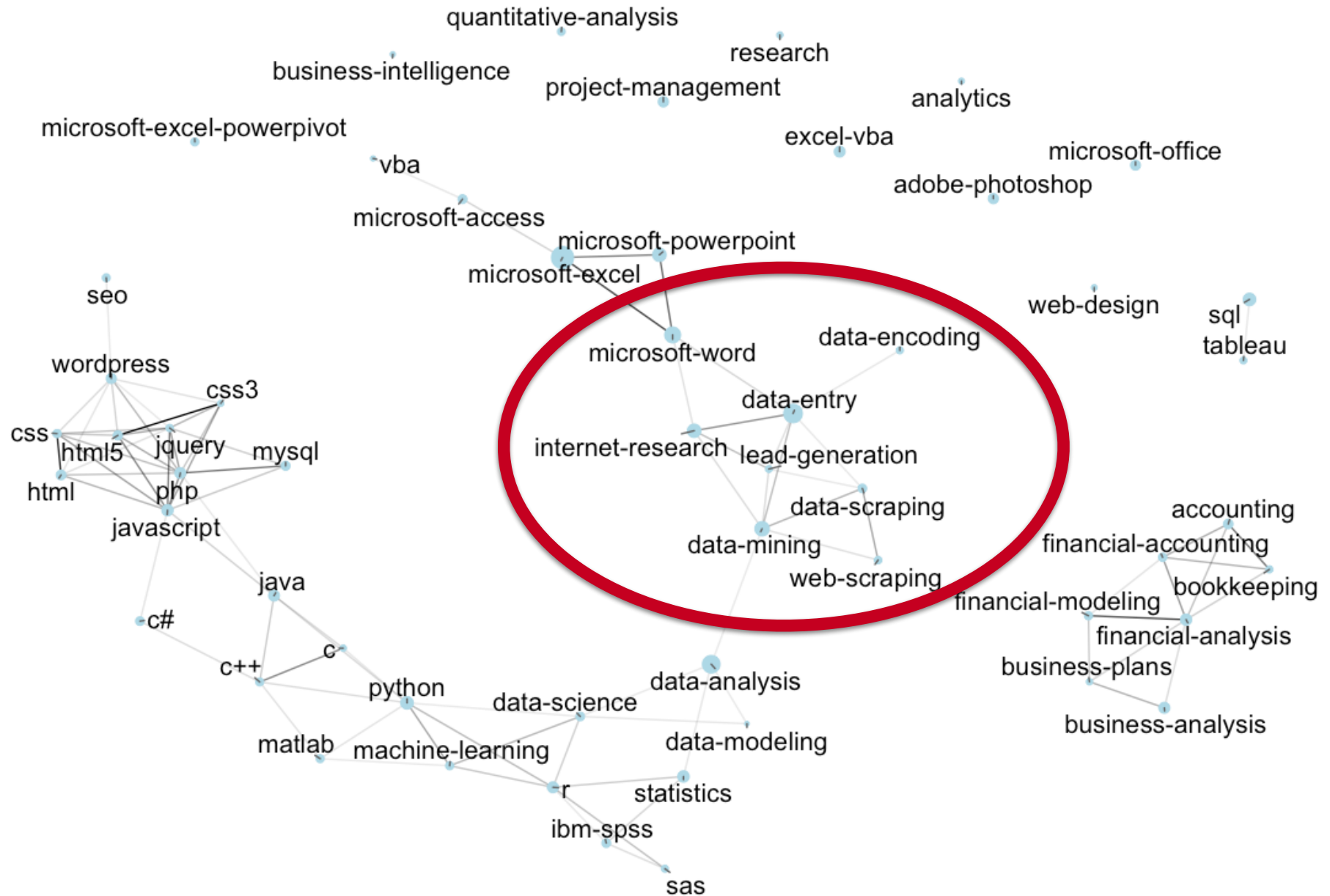
# Traditional SE



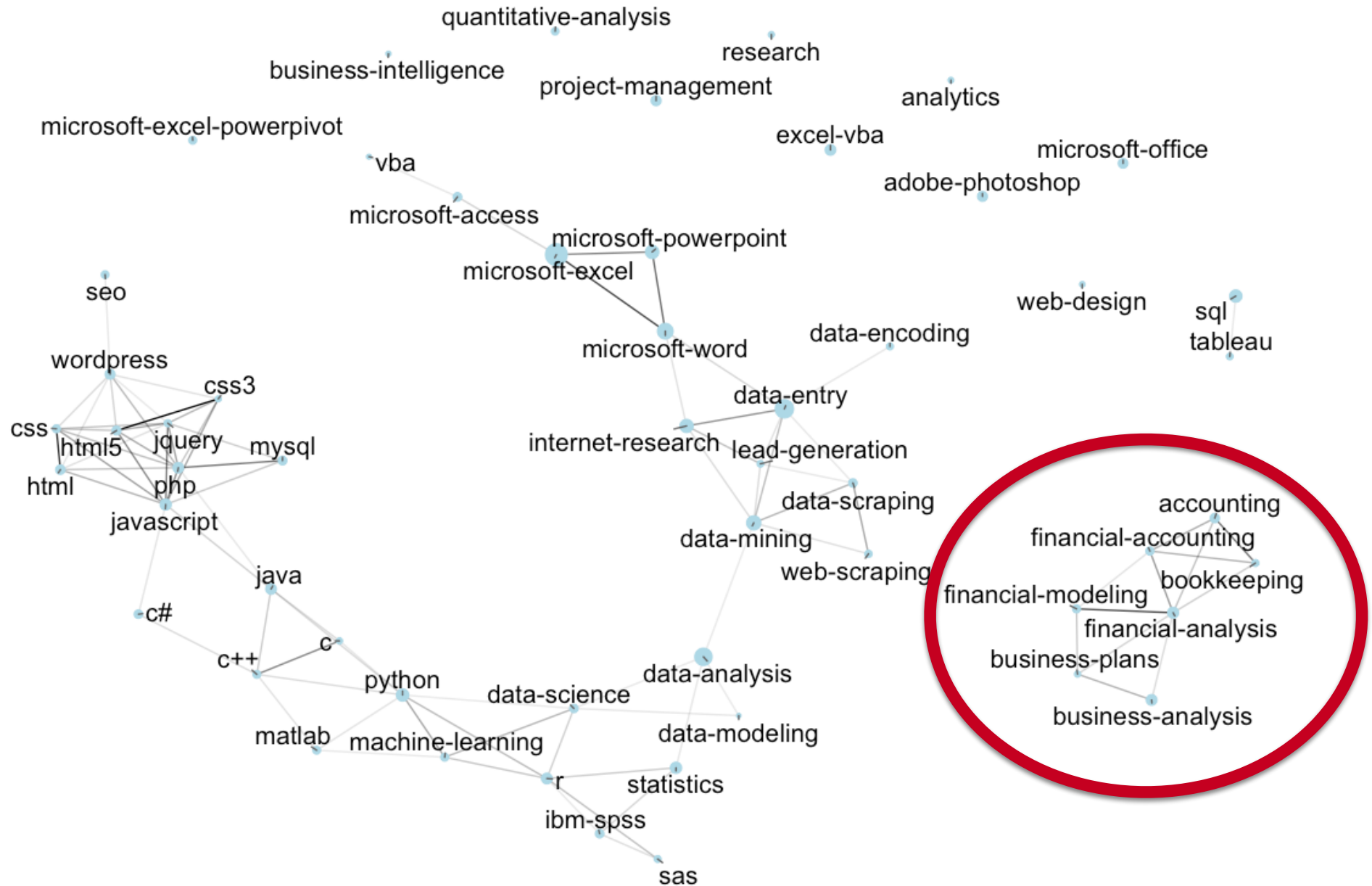
# Core Data Science



# Data Gathering



# Finance and Accounting



# **Job Recommendation System**

# Natural Language Processing

## Profile Text

I'm a data scientist with  
experience using R,  
python, machine learning...



Word	TFIDF
Scientist	0.06
Machine	0.40
Experience	0.23
Python	0.36

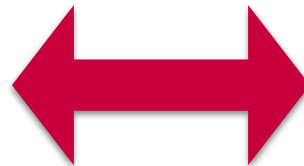
## Job Description

Need a statistician having  
experience in R and  
python ...



Word	TFIDF
Statistician	0.5
Machine	0.40
Experience	0.23
Python	0.36

Cosine  
Similarity







# Emily Robinson

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