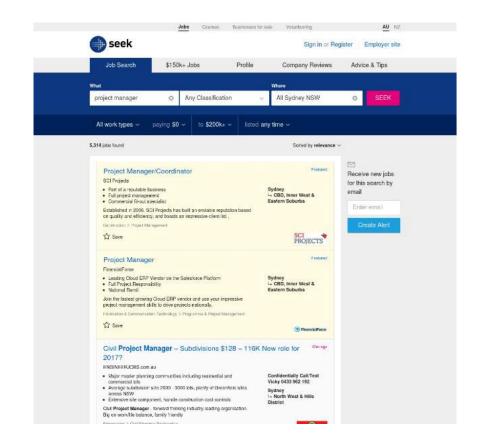
# Understanding User Behavior in Job and Talent Search: An Initial Investigation

Damiano Spina, Maria Maistro, Yongli Ren, Sargol Sadeghi, Wilson Wong, Timothy Baldwin, Lawrence Cavedon, Alistair Moffat, Mark Sanderson, Falk Scholer, Justin Zobel

#### 1. Search Tasks

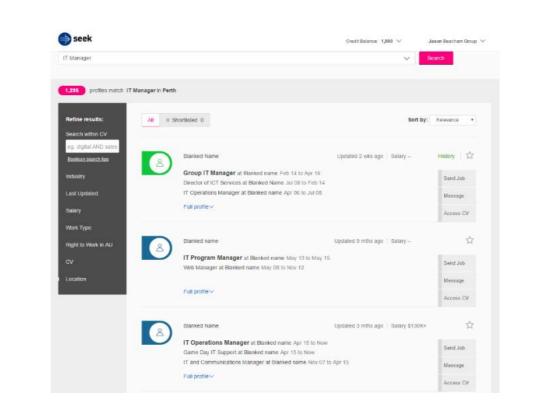
#### Job Search



Individuals monitor for opportunities / seek fresh employment in roles for which they have skills and experience.

#### **Talent Search**

Companies or employers seek candidates suitable for an available position within a business.

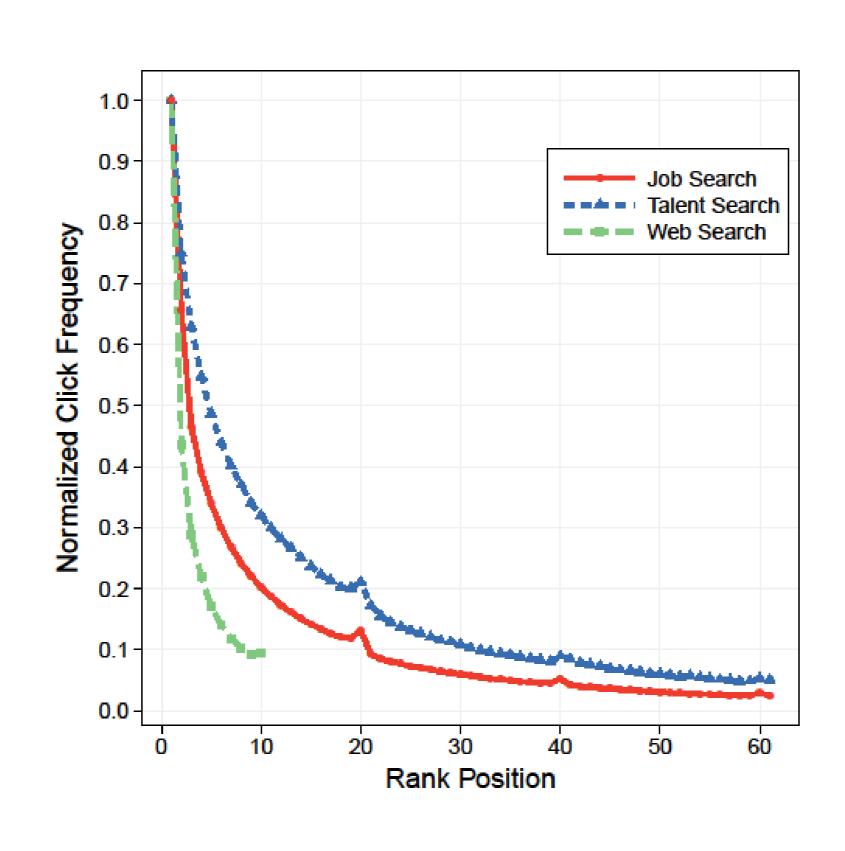


#### 2. Datasets

Web Search. Yandex logs, Relevance Prediction Challenge: 5.2k queries, top 10 results.

Job and Talent Search. SEEK logs: sample of 140M searches by seekers, 1.2M searches by hirers, top 20 results.

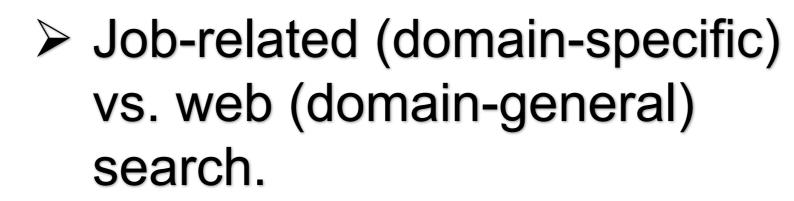
## 3. Web vs. Job vs. Talent Search

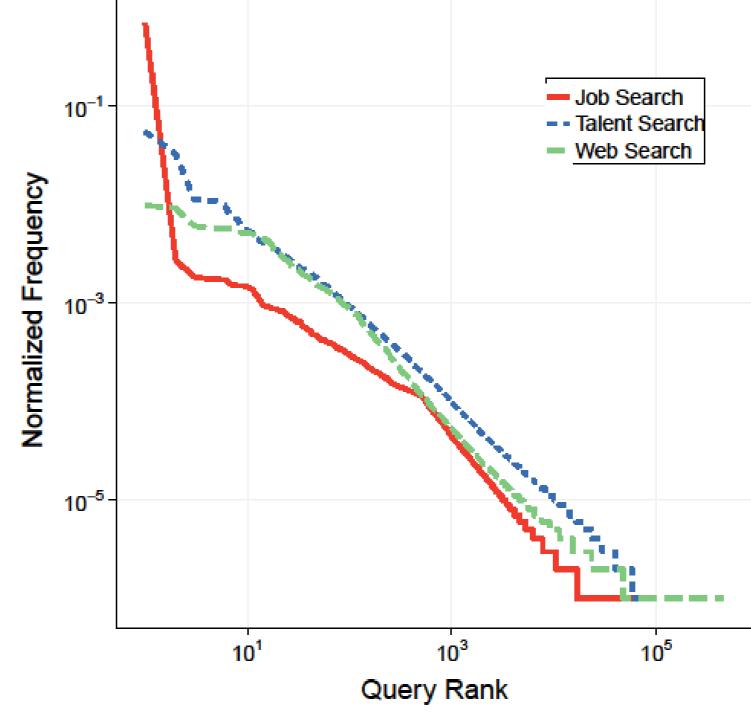


Job and Talent Search seem to be more recall-oriented than Web Search.

High cost of missing out on a dream job or a talented candidate.

Queries submitted by users are substantially **less diverse** in job and talent search than in web search.



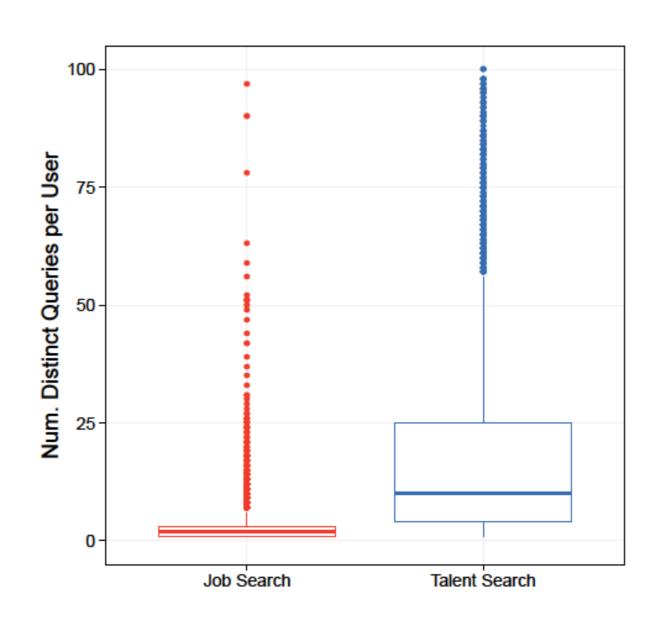


Job search has 15% fewer number of distinct queries than web search.

Talent search has 20% fewer number of distinct queries than web search.

### 4. Job vs. Talent Search

Hirers submits more distinct queries than seekers.



➤ 50% of hirers submit more than 10 unique queries.

## 5. Challenges

- Are click models used for web search applicable to job search?
- Do click-biases observed in web search also occur in job search?
- How can user behavior and user satisfaction be modelled from analyzing interactions in job search logs?
- How should evaluation of job search be performed?











