Timothy A. Thomas

POSTDOCTORAL SCHOLAR

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Education

University of Washington   *Seattle, WA*

PH.D. IN SOCIOLOGY   *2017*

   Dissertation: "Forced Out: Race, Market, & Neighborhood Dynamics of Evictions"
   Committee: Kyle Crowder (Chair), Stewart Tolnay, Nathalie Williams, & Thaisa Way (GSR)
   Exam Topics: Residential Segregation, Neighborhood Mobility, Gentrification, Neighborhood Crime, Social Disorganization, & Spatial Methods
   Minor: Demographic methods & spatial statistics

University of Washington   *Seattle, WA*

M.A. IN SOCIOLOGY   *2013*

   Thesis: "Revisiting Crime Hot-Spot Interventions: Displacement, Longevity, and Neighborhood Impacts."

University of Washington   *Seattle, WA*

B.A. IN SOCIOLOGY   *2009*

   Honor's Thesis: "Seattle's Martin Luther King, Jr. Way: A 40 Year Reflection on a Dream."

Employment

University of California, Berkeley   *Berkeley, CA*

POSTDOCTORAL SCHOLAR   *Oct. 2019 - present*

   The Urban Displacement Project at the Center for Community Innovation & The Institute of Governmental Studies

University of Washington   *Seattle, WA*

POSTDOCTORAL FELLOW   *Sep. 2017 - Oct. 2019*

   Moore-Sloan & Washington Research Data Science Postdoctoral Fellow, Sociology & The eScience Institute

Research & Teaching Interests

Urban Sociology, Race & Ethnicity, Neighborhood Change, Residential Segregation, Housing & Poverty, Residential Mobility, Social Organization, Data Science, Statistics, & Spatial Demography

Peer-Reviewed Publications

Lanfear, Charles C., Lindsey R. Beach, and **Timothy A. Thomas**. 2018. "Formal Social Control in Changing Neighborhoods: Racial Implications of Neighborhood Context on Reactive Policing." *City & Community*, 17:4. doi: 10.1111/cico.12346.

Williams, Nathalie E., **Timothy A. Thomas**, Matthew Dunbar, Nathan Eagle, and Adrian Dobra. 2015. "Measures of Human Mobility Using Mobile Phone Records Enhanced with GIS Data." *PLoS ONE*, 33. doi:10.1371/journal.pone.0133630

Under Review

Thomas, Timothy A. "Displaced by Race: Evictions, Segregation, & the Housing Market"

Manuscripts in Progress

Thomas, Timothy A. "Eviction Ecology: Neighborhood Dynamics and Extra-Local Effects."

Thomas, Timothy A., Ott Toomet, Ian Kennedy, and Alex Ramiller. "Evictions and Regional Population Migration."

Thomas, Timothy A., Ott Toomet, Ian Kennedy, and Alex Ramiller. "Evictions and Gentrification."

Toomet, Ott, Jose Hernandez, Ian Kennedy, Timothy A. Thomas, and Alex Ramiller. "Natural Language Processing for Eviction Court Records and Bayesian Demographic Estimation."

Ramiller, Alex, Timothy A. Thomas. "Evictions and the Changing Built Environment"

Thomas, Timothy A. and Michael Babb. "Neighborhood Change & Displacement: Re-imagining the Concentric Zone Theory to Measure Migration from Gentrification."

Thomas, Timothy A. and Ryan Gabriel. "Segregation within Integration: Measuring Micro-Level Segregation in Seattle's Integrated Tracts Using Spatial & Qualitative Analysis."

Thomas, Timothy A. and Michael Esposito. "Health & Racial Neighborhood Segregation: A Multi-City Comparison."

Thomas, Timothy A. "Revisiting Crime Hot-Spot Interventions: Displacement, Longevity, & Neighborhood Impacts."

Honors & Awards

INTERNATIONAL

2017-2019	**Moore/Sloan Data Science and Washington Research Foundation,** Innovation in Data Science Postdoctoral Fellowship.	*University of Washington*
2017	**Finalist,** DEFCON 25th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2014	**Finalist,** DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist,** DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist,** DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2012	**6th Place,** SECUINSIDE Hacking Competition World Final	*Seoul, S.Korea*

DOMESTIC

2015	**3rd Place,** WITHCON Hacking Competition Final	*Seoul, S.Korea*
2017	**Silver Prize,** KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize,** KISA HDCON Hacking Competition Final	*Seoul, S.Korea*
2013	**2nd Award,** HUST Hacking Festival	*S.Korea*
2010	**3rd Award,** HUST Hacking Festival	*S.Korea*
2012	**3rd Award,** Holyshield 3rd Hacking Festival	*S.Korea*
2011	**2nd Award,** Holyshield 3rd Hacking Festival	*S.Korea*
2011	**5th Place,** PADOCON Hacking Competition Final	*Seoul, S.Korea*

Extracurricular Activity

B10S (B1t 0n the Security, Underground hacker team)

S.Korea

Core Member

Nov. 2011 - PRESENT

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

WiseGuys (Hacking & Security research group)

S.Korea

Member

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

Core Member & President at 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

Member

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

Member

Sep. 2013 - Jun. 2017

- Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- Gained expertise in business strategy areas and inisght for various industry from weekly industry analysis session.

Presentation

DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

Presenter for <Hosting Web Application for Free utilizing GitHub, Netlify and CloudFlare>

Nov. 2017

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

Presenter for <DEFCON 20th : The way to go to Las Vegas>

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea

S.Korea

Presenter for <Metasploit 101>

Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

Writing

A Guide for Developers in Start-up

Facebook Page

Founder & Writer

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab

S.Korea

Undergraduate Student Reporter

Oct. 2012 - Jul. 2013

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*
2012	**Staff**, 7th Hacking Camp	*S.Korea*
2012	**Problem Writer**, 1st Hoseo University Teenager Hacking Competition	*S.Korea*
2012	**Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition	*S.Korea*