

**Eugene Bagdasaryan**  
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**SUMMARY:**

4<sup>th</sup> year CS PhD Candidate interested in building privacy-preserving systems that apply ML to private data.

**EDUCATION:**

**CornellTech, Cornell University**

*Aug 2016 – now*

PhD graduate candidate in Computer Science department. Focused on security and privacy in ML, Federated Learning, Differential Privacy, Recommender Systems. GPA: 3.7/4.0

Advised by Professors Deborah Estrin and Vitaly Shmatikov.

**Bauman Moscow State Technical University, Russia**

*September 2009 – 2016*

*June 2016* – Master's degree in Computer Science, diploma with honors. Focus: AI and Systems, GPA: 3.9/4.0

*June 2013* – Bachelor's degree in Computer Science, diploma with honors. GPA: 4.0/4.0

**WORK EXPERIENCE:**

**CornellTech, Cornell University**

*September 2016 – now*

*Research Assistant (small data lab), Teaching Assistant (Systems Spring'17, Fall'18, Spring'20, Databases Fall'16)*

**Amazon, Seattle, WA**

*May 2018 – Aug 2018*

*Applied Scientist intern at Alexa Personalization, developed multi-service recommendations engine*

**Cisco Systems, Moscow Innovation Center, Russia**

*September 2014 – July 2016*

*QA Software Engineer at Cloud and Virtualization Group, focused on OpenStack Networking*

**Cisco Systems, Boston, MA**

*August 2013 – July 2014*

*Software Engineering Intern at Collaboration Technology Group, worked on SocialMiner web-app*

**Deloitte Touché Tohmatsu Limited, Moscow, Russia**

*December 2012 – April 2013*

*Intern at Enterprise Risk Services Department, worked on data analysis for audit department*

**npobaum.ru, Moscow, Russia**

*June 2012 – December 2012*

*Research engineer at the early-stage startup working on distributed systems*

**Cinimex, Moscow, Russia**

*September 2011- March 2012*

*Junior software developer at IBM partner company, developed project for banks using IBM WebSphere*

**PAPERS:**

- **E.B.**, V. Shmatikov: “Blind Backdoors in Deep Learning Models” [in submission, arXiv]
- T. Yu, **E.B.**, V. Shmatikov: “Salvaging Federated Learning using Local Adaptation” [in submission, arXiv]
- **E.B.**, V. Shmatikov: “Differential Privacy Has Disparate Impact on Model Accuracy” [NeurIPS'19]
- **E.B.**, G. Berstein, J. Waterman, E. Birrell, N. Foster, F. Schneider, D. Estrin: “Ancile: Enhancing Privacy for Ubiquitous Computing with Use-Based Privacy” [WPES'19]
- **E.B.**, A. Veit, Y. Hua, D. Estrin, V. Shmatikov: “How to Backdoor Federated Learning” [AISTATS'20]
- L. Yang, **E.B.**, J. Gruenstein, C.-K. Hsieh, D. Estrin: “OpenRec: A Modular Framework for Extensible and Adaptable Recommendation Algorithms” [WSDM '18]

**AWARDS:**

- 2019-2020 Digital Life Initiative Fellowship
- Bloomberg Data Immersion Day 2017 Fellowship
- 3x winner of the Vladimir Potanin Scholarship, in '11, '12 and '13
- Russian Government Scholarship for Science Research, Academic Council Faculty Fellowship

**DEVELOPMENT SKILLS:**

- *Languages:* Python (PyTorch, TensorFlow, NumPy), Java (Spark, Hadoop), JavaScript, C, C++