



# Aaron Bramson 博士

アーロン ブラムソン

研究科学者

主任研究員：株式会社 GA Technologies

准研究員：早稲田政治経済研究所

## 自己紹介

私の経歴は、学術、研究室研究、コンサルティング、産業経験が混在しており、科学、人文科学、産業、公共部門にわたる幅広い基盤があります。複雑系、エージェントベースモデリング、ネットワーク理論、地理空間分析、データサイエンス、およびデータ統合、データ視覚化、パターン発見、センサーフュージョン、ソーシャルネットワークサイエンスのためのさまざまな AI 技術を専門としています。新しい研究方向への長期的な取り組みにより、未活用の能力を結び付けて実現する上で優位に立つことができます。これからも私は今まで培ってきた経験と創造力を活かして、先進的な考え方や新しい手法から、複数の分野の統合を必要とする複雑な問題を予測し、解決することに貢献したいと思います。

## 学歴

政治学博士・哲学博士 (Joint Ph.D.) 2012年4月  
University of Michigan, Ann Arbor, MI

コンプレックスシステム履修 2008年12月  
University of Michigan, Ann Arbor, MI

数学修士 (M.S.) 2004年5月  
Northeastern University, Boston, MA

経済学学士 (B.S.) 1999年8月  
University of Florida, Gainesville, FL

哲学学士 (B.A.) 1999年8月  
University of Florida, Gainesville, FL

## 職歴

AI 主任研究員 2018年4月～現在

AI Strategy Center, 株式会社 GA Technologies, 六本木, 日本  
不動産や金融サービスなど、さまざまなビジネス目的のための新しい分析方法とアルゴリズムを開発する主任科学者。DS および DX プロジェクトの研究面を監督するとともに、地理空間データ分析、ネットワーク理論とアプリケーション、マルチモーダル データ統合、機械学習アーキテクチャ開発に関する研究を実施。国際会議で定期的に研究を発表し、学術雑誌に論文を発表。

科学研究者 2014年4月～2018年3月

理化学研究所 Brain Science Institute, 象徴概念発達研究, 和光市, 日本  
適応型マルチセンサー神経行動データ融合、実験自動化、教師なしパターン発見、教師ありパターンマッチング、ウェブベースのインタラクティブな視覚化、新しいノンパラメトリック統計、および標準的な統計アプローチを統合した特許取得済みシステムの分析アルゴリズムとツールキットを開発する主任研究科学者。

## 専門分野

地理空間データ分析  
ネットワーク理論  
機械学習  
データ視覚化  
数学と統計学  
コンプレックスシステム  
コンピュータシミュレーション  
エージェントベースのモデリング  
ペイジアンネットワーク  
ゲーム理論と計量経済学  
倫理と多様性  
持続可能性と堅牢性

## スキル

Python  
SQL  
HTML & CSS & JavaScript  
Photoshop & Illustrator  
LATEX  
Mathematica  
NetLogo

## 個人情報

Aaron Bramson  
153-0061 東京都目黒区  
中目黒 1-1-32 #102

携帯: 080-8823-8539  
メール: aaronbramson@gmail.com

国籍: 米国  
査証: 永住権

2025年6月9日更新

## 所属企業

### 社長兼オーナー

2008年10月～2023年12月

Complexity Research Corporation  
Simulation and Education  
Consulting Services

### 社長兼オーナー

2006年11月～2023年12月

Jika-Tabi Incorporated  
Footwear Design and Distribution

### 共同設立者と最高科学責任者

2015年10月～2021年4月

Rikaenalysis K.K.  
Riken Venture for Research  
Marketization

## 所属機関

### 准研究員

2025年6月～現在

政治経済研究所,  
早稲田大学, 東京

### 非常勤科学研究者

2013年9月～2022年3月

Department of General  
Economics, Gent University  
Gent, Belgium

### 客員研究員

2018年4月～2023年3月

Lab for Symbolic Cognitive  
Development, Riken Brain Science  
Institute, Wakoshi, Japan

### 非常勤教授

2016年7月～2020年6月

Department of Software and  
Information Systems, UNC  
Charlotte, Charlotte, USA

### 非常勤科学研究者

2013年9月～2018年3月

*Department of General Economics, Gent University, Gent, Belgium*

多層ネットワークによる仮想世界データの分析、ソーシャルバランス、ヘドニックプライシング、市場効率化モデル、市場の内生的ハブなどに焦点を当てた政府出資のLAB-Mプロジェクトの主席研究員。また、CoCo債のデフォルトが市場に与える影響、再生可能エネルギーの不確実性がもたらす効率性の効果、時系列の不確実性を利用した金融商品の分類などに関するプロジェクトにも貢献している。

### 博士研究員

2013年8月～2014年3月

*Systems Research, Analysis, and Applications, Sandia Labs, Albuquerque, NM*

世論力学におけるソーシャルネットワーク効果のシミュレーション、マルチモデルメカニズム統合、インターフェース設計、システムダイナミクスにおける未知の境界、最適反復データ粗粒度。

### 教授訪問

2012年10月-11月, 2013年4月-7月

*Economics Department, Ghent University, Gent, Belgium*

大規模な銀行間取引データのリスク伝播を追跡する時系列ネットワークのアプローチ「テンポラルウェブ」の開発。銀行の失敗とカスケード崩壊の予測分析のためのエージェントベースのモデル開発。

### 研究員

2012年12月～2013年3月

理研BSI、象徴概念発達研究チーム、和光市、日本

我々の適応研究に統合するため、教師なし分類を実行し、神経学+生理学+環境データにおける動的パターンを同定するために、私が開発した Revealed Dynamics Markov Modelingを適用した(特許JP 6029069)。

### 公共政策のコンプレキシティに関するコンサルタント

2012年9月

*Civil Service College and Various Government Agencies, Singapore*

コンプレキシティを盛り込み用いるため、複数の政治組織と協力した。3つのワークショップ(AI・シミュレーション・コンプレキシティ理論)を指導し、政府関係者の要望に沿って専門家とマッチングした。

### 統合機能的人体シミュレーション

2012年2月～2012年8月

*Mayo Clinic, Rochester, MN*

全身の有機的機能と応答における知識ギャップ解明のための、ICU用統合型メゾスコピック人体シミュレータの初期開発。

### 博士研究員

2010年2月～2011年7月

*Rotman School of Management, University of Toronto, Toronto, ON*

事業アプリケーションのためのビジネスコンプレキシティとベイジアンネットワークのMBAコアコースを共同開発した。内容にはエージェントベースモデルと因果モデリングが結果、最初の教科書に採用された:「*Inference and Intervention*」。

### ソーシャルネットワークを通じた情報転送

2009年7月～2010年9月

*Digital Consulting Service, Newbury Park, CA*

さまざまな通信特性を持つ異機種間ソーシャルネットワークのメッセージ信号のために、米国ウエストポイントの陸軍士官学校のためのシミュレーション環境を作成した。

## パーソナルスキル

ブレインストーミング

高い創造力

論理的思考力

理性的な判断力

プレゼンテーションスキル

優れた協調性

好奇心旺盛

柔軟性と高いモチベーション

機知と社交性に富む

幅広く豊富な知識量

## 言語能力

英語: ネイティブ(米国)

日本語: 高度な会話  
中級な読み書き

スペイン語: 会話(下手なた)

ドイツ語: 会話(下手なた)

ソフトウェアエンジニア

2007年5月～2010年8月

*Lockheed Martin Corporation, San Diego, CA*

都市運営プログラムのためのJAVAでマルチインテグレート融合手法を開発。文化融合・ソーシャルネットワーク分析・コンプレックスシステム手法を取り入れるための研究開発や新規契約提案のための技術開発に参加。トップシークレットセキュリティクリアランス認定。

## 主な執筆歴

Patrick Grim, Daniel J. Singer, Aaron Bramson, Bennett Holman, Jiin Jung and William J. Berger. "The Epistemic Role of Diversity in Juries: An Agent-Based Model" *Journal of Artificial Societies and Social Simulation* 27 (1) 12 (2024)

Aaron Bramson. "Neighborhood discovery via augmented network community structure" *Applied Network Science* 7 (1), 1-23 (2022).

Aaron Bramson, Kevin Hoefman, Koen Schoors, Jan Ryckebusch. "Diplomatic relations in a virtual world" *Political Analysis* 30 (2), 214-235 (2022).

William Berger, Dan Singer, Aaron Bramson, Patrick Grim, Jiin Jung, Bennett Holman. "Philosophical Considerations of Political Polarization" *The Political Turn in Analytic Philosophy: Reflections on Social Injustice and Oppression* 11 (2022).

Aaron Bramson. "Neighborhood Discovery via Network Community Structure" *International Conference on Complex Networks and Their Applications*, 769-779 (2021).

Aaron Bramson, Kazuto Okamoto, Megumi Hori. "Comparing Methods for Measuring Walkability." *Complex Systems*. 30 (4), 539-565 (2021).

Aaron Bramson, Megumi Hori. "Effect of Walkability on Rental Prices in Tokyo" *2021 IEEE 4th International Conference on Multimedia Information Processing and Retrieval (MIPR)* (2021).

Jiin Jung, Aaron Bramson, William Crano, Scott Page, John Miller. "Cultural drift, indirect minority influence, network structure, and their impacts on cultural change and diversity." *American Psychologist* 76 (6), 1039 (2021).

Aaron Bramson, Megumi Hori. "The Best Place in Tokyo for Anything: Classifying Stations by Walkability to Specific Amenities" *Annual Conference of the Japanese Society for Artificial Intelligence*, 106-117 (2021).

Dan Singer, Aaron Bramson, Patrick Grim, Bennett Holman, Karen Kovaka, Jiin Jung, William Berger. "Don't forget forgetting: the social epistemic importance of how we forget" *Synthese* 198 (6), 5373-5394 (2021).

Dan Singer, Patrick Grim, Aaron Bramson, Bennett Holman, Jiin Jung, William Berger. "Epistemic networks and polarization" *The Routledge Handbook of Political Epistemology*, 133-144 (2021).

Shuto Araki, Aaron Bramson. "Connecting the dots: integrating point location data into spatial network analyses" *International Conference on Complex Networks and Their Applications*, 193-205 (2020).

Aaron Bramson, Megumi Hori, Bingran Zha, Hirohisa Inamoto. "Social and economic flows across multimodal transportation networks in the Greater Tokyo Area" *Applied Network Science* 5(1), 1-35 (2020).

Patrick Grim, Aaron Bramson, Dan Singer, William Berger, Jiin Jung Scott Page. "Representation in models of epistemic democracy" *Episteme* 17 (4), 498-518 (2020).

Aaron Bramson. "Toward Universal Data Interoperability in Networked Belief Models" 2020 13<sup>th</sup> *International Conference on Human System Interaction (HSI)*, 124-129 (2020).

Aaron Bramson, Megumi Hori, Bingran Zha, Hirohisa Inamoto. "Scoring and classifying regions via multimodal transportation networks" *Applied Network Science* 4:97 (2019).

Daniel Singer, Aaron Bramson, Patrick Grim, Bennett Holman, Karen Kovaka, Jiin Jung, William Berger. "Don't forget forgetting: the social epistemic importance of how we forget" *Synthese* 1-22 (2019).

Daniel Singer, Aaron Bramson, Patrick Grim, Bennett Holman, Jiin Jung, Karen Kovaka, Anika Ranginani, William J. Berger. "Rational social and political polarization" *Philosophical Studies* 176 (9), 2243-2267 (2019).

Aaron Bramson. "Formal Measures of Dynamical Properties: Tipping Points, Robustness, and Sustainability" *Complex Adaptive Systems* pp 79-128 (2019).

Aaron Bramson, Megumi Hori, Bingran Zha, Hirohisa Inamoto. "Classification of Accessibility and Synergy in the Tokyo Area Multimodal Transportation Network" *Advances in Artificial Intelligence. vol 1128*; pp 247-266 (2019).

Jiin Jung, Patrick Grim, Daniel Singer, Aaron Bramson, William J. Berger, Bennett Holman, Karen Kovaka. "A Multidisciplinary Understanding of Polarization" *American Psychologist* (2019).

Aaron Bramson, Adrien Baland, Atsushi Iriki. "Measuring Dynamical Uncertainty with Revealed Dynamics Markov Models" *Frontiers in Applied Mathematics and Statistics*. 5 (2019).

Andres M. Belaza, Jan Ryckebusch, Aaron Bramson, Corneel Casert, Kevin Hoefman, Koen Schoors, Milan van den Heuvel, Benjamin Vandermarliere. "Social stability and extended social balance—Quantifying the role of inactive links in social networks" *Physica A* 518: 270-284 (2019).

Patrick Grim, Daniel Singer, Aaron Bramson, Bennett Holman, Sean McGeehan, William Berger. "Diversity, Ability, and Expertise in Epistemic Communities" *Philosophy of Science* 86(1): 98-123 (2019).

Bennett Holman, William Berger, Daniel Singer, Patrick Grim, Aaron Bramson. "Diversity and Democracy: Agent-Based Modeling in Political Philosophy" *Historical Social Research* 43(1): 259-84 (2018).

Kevin Hoefman, Aaron Bramson, Koen Schoors, Jan Ryckebusch. "The impact of functional and social value on the price of goods" *PLOS ONE* 13(11): e0207075 (2018).

Jiin Jung, Aaron Bramson, William Crano. An Agent-Based Model of Indirect Minority Influence on Social Change and Diversity" *Social Influence* (2017).

Aaron Bramson, Kevin Hoefman, Milan van den Heuvel, Benjamin Vandermarliere, Koen Schoors. "Measuring Propagation with Temporal Webs" In: Masuda N., Holme P. (eds) *Temporal Network Epidemiology* (2017).

Andres M Belaza, Kevin Hoefman, Jan Ryckebusch, Aaron Bramson, Milan van den Heuvel, Koen Schoors. Statistical physics of balance theory. *PLoS ONE* 12(8): e0183696. (2017).

Aaron Bramson, Patrick Grim, Daniel Singer, William Berger, Graham Sack, Steven Fisher, Carissa Flocken. "Understanding Polarization: Meanings, Measures, and Model Evaluation" *Philosophy of Science* Volume 84, Issue 1 (2017).

Atsushi Iriki, Yumiko Yamazaki, Aaron Bramson. "Animal Test Device" *Japanese Patent* JP 6029069 (October 28, 2016).

Aaron Bramson, Benjamin Vandermarliere. "Benchmarking Measures of Network Influence" *Scientific Reports* 6, 34052; (2016).

Aaron Bramson, Patrick Grim, Daniel Singer, Steven Fisher, William Berger, Graham Sack, Carissa Flocken. "Disambiguation of Social Polarization Concepts and Measures" *Mathematical Sociology* Volume 40, Issue 2, pp. 80-111 (2016).

Aaron Bramson, Benjamin Vandermarliere. "Dynamical Properties of Interaction Data" *Journal of Complex Networks* Volume 4, Issue 1, pp. 87-114 (2015).

Mike Ryall, Aaron Bramson. *Influence and Intervention: Causal Modeling for Business Analysis*. Routledge Press (2013).

Patrick Grim, Daniel J. Singer, Steven Fisher, Aaron Bramson, William J. Berger, Christopher Reade, Carissa Flocken, Adam Sales. "Scientific Networks on Data Landscapes: Question Difficulty, Epistemic Success, and Convergence" *Episteme* Volume 10, 4 (2013).

Jenna Bednar, Aaron Bramson, Andrea Jones-Rooy, Scott Page. "Emergent cultural signatures and persistent diversity" *Rationality and Society*, Volume 22(4). (2010).

Aaron Bramson. "Formal Measures of Dynamical Properties: Robustness" *Symposia Technical Report Series of the AAAI*. (2010).

Aaron Bramson. "Formal Measures of Dynamical Properties: Tipping Points" *Symposia Technical Report Series of the AAAI*. (2009).

Aaron Bramson. "Evolution of Cooperation and Coordination via Preferential Detachment" *Proceedings of the IEEE TIC-STH Symposium on Complex Systems*. (2009).

Aaron Bramson. "Methodology for Building Confidence Measures" *Proceedings of the 2004 S.P.I.E. Defense and Security Conference*. (2004).



# Aaron Bramson, PhD

Research Scientist

**Principal Investigator** at *GA technologies, Inc.*  
**Associate Researcher** of *Waseda Institute of Political Economy*

## PERSONAL SUMMARY

My background is a mixture of academia, lab research, consulting, and business experience with a broad base across the sciences, humanities, industry, and public sectors. I specialize in complex systems, agent-based modeling, network theory, geospatial analysis, data science, and various AI techniques for data integration, data visualization, pattern discovery, sensor fusion, and social network science. My long-term commitment to new research directions gives me an edge in connecting and realizing untapped capabilities. I want to pursue opportunities to leverage my experience and creativity to anticipate, navigate, and solve complex problems requiring forward thinking, novel methods, and the integration of multiple fields.

## AREAS OF EXPERTISE

- Geospatial Data Analysis
- Network Theory
- Machine Learning
- Data Visualization
- Mathematics and Statistics
- Complex Systems
- Computer Simulation
- Agent-based Modeling
- Bayesian Networks
- Game Theory and Econometrics
- Ethics and Diversity
- Sustainability and Robustness

## TECHNICAL SKILLS

- Python
- SQL
- HTML & CSS & JavaScript
- Photoshop & Illustrator
- L<sup>A</sup>T<sub>E</sub>X
- Mathematica
- NetLogo

## PERSONAL DETAILS

Aaron Bramson  
 Nakameguro 1-1-32 #102  
 Meguro, Tokyo 153-0061

Mobile: 080-8823-8539  
 Email: aaronbramson@gmail.com

Nationality: USA  
 Visa: Permanent Residency

## EDUCATION

- Ph.D. Joint Political Science and Philosophy** April 2012  
University of Michigan, Ann Arbor, MI
- Certificate in Complex Systems and ABMs** Dec 2008  
University of Michigan, Ann Arbor, MI
- M.S. in Mathematics** May 2004  
Northeastern University, Boston, MA
- B.S. in Economics** Aug 1999  
University of Florida, Gainesville, FL
- B.A. in Philosophy** Aug 1999  
University of Florida, Gainesville, FL

## WORK EXPERIENCE

**AI Principal Investigator** April 2018 to Present

*AI Strategy Center, GA Technologies Inc, Roppongi, Japan*

Lead scientist developing novel analysis methods and algorithms for a variety of business purposes including real estate and financial services. Oversee research aspects of DS and DX projects as well as conduct research on geospatial data analysis, network theory and applications, multimodal data integration, and machine learning architecture development. Regularly present research at international conferences and publish in academic journals.

**Research Scientist** April 2014 to March 2018

*Lab for Symbolic Cognitive Development, RIKEN BSI, Wakoshi, Japan*

Lead research scientist developing analysis algorithms and toolkit for patented system integrating adaptive multi-sensor neuro-behavioral data fusion, experiment automation, unsupervised pattern discovery, supervised pattern matching, web-based interactive visualization, novel nonparametric statistics, and standard statistical approaches.

**Affiliate Researcher** September 2013 to March 2018

*Department of General Economics, Gent University, Gent, Belgium*

## PROFESSIONAL AFFILIATIONS

### President and Owner

Oct 2008 to Dec 2023

Complexity Research Corporation  
Simulation and Education  
Consulting Services

### President and Owner

Nov 2006 to Dec 2023

Jika-Tabi Incorporated  
Footwear Design and Distribution

### Co-Founder and Chief Science Officer

Oct 2015 to April 2021

Rikaanalysis K.K.  
Riken Venture for Research  
Marketization

## ACADEMIC AFFILIATIONS

### Associate Researcher

June 2025 to Present

Institute of Political Economy  
Waseda University  
Tokyo, Japan

### Affiliate Researcher

Sept 2013 to March 2023

Department of General  
Economics, Gent University  
Gent, Belgium

### Visiting Scientist

April 2018 to March 2023

Lab for Symbolic Cognitive  
Development, Riken Brain Science  
Institute, Wakoshi, Japan

### Adjunct Professor

July 2016 to June 2020

Department of Software and  
Information Systems, UNC  
Charlotte, Charlotte, USA

Lead researcher on government sponsored LAB-M project focused on the analysis of virtual world data via multi-layer networks, social balance, hedonic pricing, models of market efficiency, and market endogenous hubs. Also contributed to projects on the market impacts of CoCo bond default, efficiency effects of renewable energy uncertainty, classification of financial products via time series uncertainty, and others.

### Postdoctoral Appointee

Aug 2013 to April 2014

*Systems Research, Analysis, and Applications, Sandia Labs, Albuquerque, NM*  
Simulations of social network effects in opinion dynamics, multi-model mechanism integration, interface design, bounding unknown unknowns in system dynamics, optimal iterative data course-graining.

### Visiting Research Professor

Oct - Nov 2012, Apr - July 2013

*Economics Department, Ghent University, Belgium*  
Developed "temporal web" intertemporal network approach to track risk propagation in large-scale interbank transaction data, developed an agent-based model for predictive analytics of bank failure and cascading collapse.

### Research Scientist

Dec 2012 to March 2013

*Lab for Symbolic Cognitive Development, RIKEN BSI, Wakoshi, Japan*  
Adapted my Revealed Dynamics Markov Modeling technique to perform unsupervised classification and identify dynamical patterns in neurological + physiological + environmental data to integrate it into our adaptive research enclosure (Patent JP 6029069).

### Consultant on Complexity in Public Policy

September 2012

*Civil Service College and Various Government Agencies, Singapore*  
Engaged with multiple political organizations to provide advice on incorporating and harnessing complexity. Taught three workshops covering AI, simulation, and the theory of complexity and connected local complexity-related academics with interested parties.

### Integrated Functional Human Body Simulation

Feb 2012 to Aug 2012

*Mayo Clinic, Rochester, MN*  
Initial development of an integrated mesoscopic human body simulator for intensive care unit interventions to uncover knowledge gaps in full body coordinated function and response.

### Post-Doctoral Research Fellow

February 2010 to July 2011

*Rotman School of Management, University of Toronto, Toronto, ON*  
Developed and co-taught an MBA core course on Business Complexity and Bayesian Networks for Business Applications. Content included agent-based models and causal modeling resulting in the first textbook on the subject: *Inference and Intervention*.

### Information Transfer across Social Networks

July 2009 to Sept 2010

*Digital Consulting Service, Newbury Park, CA*  
Created a simulation environment for the United States Military Academy at West Point for message signaling across heterogeneous social networks with various communication properties.

### Software Engineer

May 2007 to August 2010

*Lockheed Martin Corporation, San Diego, CA*  
Developed multi-int fusion methodologies in JAVA for urban operations program and participated in technology development for R&D and new

## PERSONAL SKILLS

Brainstorming and Creativity  
Critical and Logical Thinking  
Rational Decision Making  
Making and Giving Presentations  
Delegation and Collaboration  
Eager to Learn New Things  
Flexible and Self-Motivated  
Humorous and Friendly  
Broadly Knowledgeable

## LANGUAGE SKILLS

English: Native (USA)  
Japanese: Advanced Speaking  
Intermediate Reading  
and Writing  
Spanish: Conversational (out of  
practice)  
German: Conversational (out of  
practice)

contract proposals for cultural fusion, social network analysis, and incorporating complex systems methods. Top Secret security clearance issued.

## SELECTED PUBLICATIONS

Patrick Grim, Daniel J. Singer, Aaron Bramson, Bennett Holman, Jiin Jung and William J. Berger. "The Epistemic Role of Diversity in Juries: An Agent-Based Model" *Journal of Artificial Societies and Social Simulation* 27 (1) 12 (2024)

Aaron Bramson. "Neighborhood discovery via augmented network community structure" *Applied Network Science* 7 (1), 1-23 (2022).

Aaron Bramson, Kevin Hoefman, Koen Schoors, Jan Ryckebusch. "Diplomatic relations in a virtual world" *Political Analysis* 30 (2), 214-235 (2022).

William Berger, Dan Singer, Aaron Bramson, Patrick Grim, Jiin Jung, Bennett Holman. "Philosophical Considerations of Political Polarization" *The Political Turn in Analytic Philosophy: Reflections on Social Injustice and Oppression* 11 (2022).

Aaron Bramson. "Neighborhood Discovery via Network Community Structure" *International Conference on Complex Networks and Their Applications*, 769-779 (2021).

Aaron Bramson, Kazuto Okamoto, Megumi Hori. "Comparing Methods for Measuring Walkability." *Complex Systems*. 30 (4), 539-565 (2021).

Aaron Bramson, Megumi Hori. "Effect of Walkability on Rental Prices in Tokyo" 2021 *IEEE 4<sup>th</sup> International Conference on Multimedia Information Processing and Retrieval (MIPR)* (2021).

Jiin Jung, Aaron Bramson, William Crano, Scott Page, John Miller. "Cultural drift, indirect minority influence, network structure, and their impacts on cultural change and diversity." *American Psychologist* 76 (6), 1039 (2021).

Aaron Bramson, Megumi Hori. "The Best Place in Tokyo for Anything: Classifying Stations by Walkability to Specific Amenities" *Annual Conference of the Japanese Society for Artificial Intelligence*, 106-117 (2021).

Dan Singer, Aaron Bramson, Patrick Grim, Bennett Holman, Karen Kovaka, Jiin Jung, William Berger. "Don't forget forgetting: the social epistemic importance of how we forget" *Synthese* 198 (6), 5373-5394 (2021).

Dan Singer, Patrick Grim, Aaron Bramson, Bennett Holman, Jiin Jung, William Berger. "Epistemic networks and polarization" *The Routledge Handbook of Political Epistemology*, 133-144 (2021).

Shuto Araki, Aaron Bramson. "Connecting the dots: integrating point location data into spatial network analyses" *International Conference on Complex Networks and Their Applications*, 193-205 (2020).

Aaron Bramson, Megumi Hori, Bingran Zha, Hirohisa Inamoto. "Social and economic flows across multimodal transportation networks in the Greater Tokyo Area" *Applied Network Science* 5(1), 1-35 (2020).

Patrick Grim, Aaron Bramson, Dan Singer, William Berger, Jiin Jung Scott Page. "Representation in models of epistemic democracy" *Episteme* 17 (4), 498-518 (2020).

Aaron Bramson. "Toward Universal Data Interoperability in Networked Belief Models" 2020 13<sup>th</sup> *International Conference on Human System Interaction (HSI)*, 124-129 (2020).

Aaron Bramson, Megumi Hori, Bingran Zha, Hirohisa Inamoto. "Scoring and classifying regions via multimodal transportation networks" *Applied Network Science* 4:97 (2019).

Daniel Singer, Aaron Bramson, Patrick Grim, Bennett Holman, Karen Kovaka, Jiin Jung, William Berger. "Don't forget forgetting: the social epistemic importance of how we forget" *Synthese* 1-22 (2019).

Daniel Singer, Aaron Bramson, Patrick Grim, Bennett Holman, Jiin Jung, Karen Kovaka, Anika Ranginani, William J. Berger. "Rational social and political polarization" *Philosophical Studies* 176 (9), 2243-2267 (2019).

Aaron Bramson. "Formal Measures of Dynamical Properties: Tipping Points, Robustness, and Sustainability" *Complex Adaptive Systems* pp 79-128 (2019).

Aaron Bramson, Megumi Hori, Bingran Zha, Hirohisa Inamoto. "Classification of Accessibility and Synergy in the Tokyo Area Multimodal Transportation Network" *Advances in Artificial Intelligence. vol 1128*; pp 247-266 (2019).

Jiin Jung, Patrick Grim, Daniel Singer, Aaron Bramson, William J. Berger, Bennett Holman, Karen Kovaka. "A Multidisciplinary Understanding of Polarization" *American Psychologist* (2019).

Aaron Bramson, Adrien Baland, Atsushi Iriki. "Measuring Dynamical Uncertainty with Revealed Dynamics Markov Models" *Frontiers in Applied Mathematics and Statistics*. 5 (2019).

Andres M. Belaza, Jan Ryckebusch, Aaron Bramson, Corneel Casert, Kevin Hoefman, Koen Schoors, Milan van den Heuvel, Benjamin Vandermarliere. "Social stability and extended social balance—Quantifying the role of inactive links in social networks" *Physica A* 518: 270-284 (2019).

Patrick Grim, Daniel Singer, Aaron Bramson, Bennett Holman, Sean McGeehan, William Berger. "Diversity, Ability, and Expertise in Epistemic Communities" *Philosophy of Science* 86(1): 98-123 (2019).

Bennett Holman, William Berger, Daniel Singer, Patrick Grim, Aaron Bramson. "Diversity and Democracy: Agent-Based Modeling in Political Philosophy" *Historical Social Research* 43(1): 259-84 (2018).

Kevin Hoefman, Aaron Bramson, Koen Schoors, Jan Ryckebusch. "The impact of functional and social value on the price of goods" *PLOS ONE* 13(11): e0207075 (2018).

Jiin Jung, Aaron Bramson, William Crano. "An Agent-Based Model of Indirect Minority Influence on Social Change and Diversity" *Social Influence* (2017).

Aaron Bramson, Kevin Hoefman, Milan van den Heuvel, Benjamin Vandermarliere, Koen Schoors. "Measuring Propagation with Temporal Webs" In: Masuda N., Holme P. (eds) *Temporal Network Epidemiology* (2017).

Andres M Belaza, Kevin Hoefman, Jan Ryckebusch, Aaron Bramson, Milan van den Heuvel, Koen Schoors. Statistical physics of balance theory. *PLoS ONE* 12(8): e0183696. (2017).

Aaron Bramson, Patrick Grim, Daniel Singer, William Berger, Graham Sack, Steven Fisher, Carissa Flocken. "Understanding Polarization: Meanings, Measures, and Model Evaluation" *Philosophy of Science* Volume 84, Issue 1 (2017).

Atsushi Iriki, Yumiko Yamazaki, Aaron Bramson. "Animal Test Device" *Japanese Patent JP 6029069* (October 28, 2016).

Aaron Bramson, Benjamin Vandermarliere. "Benchmarking Measures of Network Influence" *Scientific Reports* 6, 34052; (2016).

Aaron Bramson, Patrick Grim, Daniel Singer, Steven Fisher, William Berger, Graham Sack, Carissa Flocken. "Disambiguation of Social Polarization Concepts and Measures" *Mathematical Sociology* Volume 40, Issue 2, pp. 80-111 (2016).

Aaron Bramson, Benjamin Vandermarliere. "Dynamical Properties of Interaction Data" *Journal of Complex Networks* Volume 4, Issue 1, pp. 87-114 (2015).

Mike Ryall, Aaron Bramson. *Influence and Intervention: Causal Modeling for Business Analysis*. Routledge Press (2013).

Patrick Grim, Daniel J. Singer, Steven Fisher, Aaron Bramson, William J. Berger, Christopher Reade, Carissa Flocken, Adam Sales. "Scientific Networks on Data Landscapes: Question Difficulty, Epistemic Success, and Convergence" *Episteme* Volume 10, 4 (2013).

Jenna Bednar, Aaron Bramson, Andrea Jones-Rooy, Scott Page. "Emergent cultural signatures and persistent diversity" *Rationality and Society*, Volume 22(4). (2010).

Aaron Bramson. "Formal Measures of Dynamical Properties: Robustness" *Symposia Technical Report Series of the AAAI*. (2010).

Aaron Bramson. "Formal Measures of Dynamical Properties: Tipping Points" *Symposia Technical Report Series of the AAAI*. (2009).

Aaron Bramson. "Evolution of Cooperation and Coordination via Preferential Detachment" *Proceedings of the IEEE TIC-STH Symposium on Complex Systems*. (2009).

Aaron Bramson. "Methodology for Building Confidence Measures" *Proceedings of the 2004 S.P.I.E. Defense and Security Conference*. (2004).