Aviv Y. Landau, Ph.D., M.S.W

Contact	**Personal details**
1500 Locust, apt 1916, 19102, Philadelphia 914: 314-3544 aviv.landau@gmail.com	DOB: 03.12.1985 Citizenship: Israel Married, 2 children

Education

2018 **Ph.D.,** School of Social Work**,** University of Haifa, Haifa, Israel
Dissertation title: Interpersonal Rejection among Youth in Online Social Networks
Advisors: Professor Zvi Eisikovits and Professor Sheizaf Rafaeli

2015 **M.S.W.,** School of Social Work, University of Haifa (Cum Laude)
2010 **B.S.W.,** School of Social Work, University of Haifa

Academic Appointments

2022- **Postdoctoral research scientist**, The School of Policy and Practice. Host: Professor Desmond Patton

2022- **Co-director of the SAFElab**, UPenn

2019- 2022 **Postdoctoral research scientist**, The Data Science Institute, Columbia University. Host: Professor Desmond Patton

2021- 2022 **Co-director of the SAFElab**, School of Social Work, Columbia University

2019- 2022 **Lecturer,** Field placement supervisor**,** SAFElab**,** School of Social Work, Columbia University

2019- 2021 **Associate director of the SAFElab**, School of Social Work, Columbia University

2018-2019 **Adjunct lecturer**, Mivchar**,** University of Haifa, School of Social Work

2015-2016 **Field instructor** for M.S.W students during their practical practice, University of Haifa

Awards, Distinctions and Fellowships

2022 Accepted into the 2022 Summer Training Institute for Research in Child Abuse and Neglect (Washington University in St. Louis)

2019-2020 Awarded the Haruv Institute Postdoctoral Fellowship

Teaching Experience – Columbia University

- **Lecturer**
    - Field placement supervisor at Columbia School of Social Work

- **Visiting Lecturer**
  - Nursing Data Science Course- Columbia School of Nursing

Teaching Experience – Mivhar, University of Haifa

- **Instructor**

  - Social Work Practice with Communities and Organizations
  - Scientific Writing

Work Experience

2010-2018 Social Worker, Department of Education, Haifa Municipality; Worked in local schools with adolescents from marginalized communities.

2011-2012 Social Worker, Department of Drug Abuse and Addiction, Haifa Municipality; Worked as a street social worker to locate and intervene with youth at risk.

2003-2006 Army Service - Israeli Defense Forces; Served in the armored corps. Rank: First Sergeant. Received honorary commendation at both the battalion and division levels.

Membership and activities in professional associations

- Society for Social Work and Research (SSWR)
- The Israeli Association of Social Workers.

Peer Reviewed Presentations

Jan 2023 **Landau, A.Y.,** Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Quantitative & Qualitative Advances for an NLP-Driven Child Abuse and Neglect Phenotype: A Qualitative Study,* Presentation, The Chadwick Center's San Diego Conference on Child and Family Maltreatment

April 2022 Zhou, Y., Althobaiti, S, Idnay, B, **Landau, A.Y.,** Blanchard, Cato, K., Patton, D.U., & Topaz, M., *Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias;* Poster presentation. Data Science Institute Day, Columbia University NY.

Jan 2022 Aguilar, N.J., **Landau, A.Y**., Taylor, K.A., Kleiner, S. & Patton, D.U., Being Black and Grieving Online: Exploring the Digital Image-Based Grieving Practices of Black Youth, Presentation at the 26th Annual Conference of the Society for Social Work and Research (SSWR)

May 2021 **Landau, A.Y.,** Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias: A Qualitative Study,* Presentation, AMIA 2021 Virtual Clinical Informatics Conference, (Online).

April 2021 **Landau, A.Y.,** Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias: A Qualitative Study* Poster presentation. Data Science Institute Day, Columbia University NY. (Online)

December 2020	**Landau, A.Y.,** Blanchard, A., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., *Artificial Intelligence- Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction*, Poster presentation. Machine Learning in Science and Engineering, Columbia University NY. (Online)
April 2020	Aguilar, N.J., Frey, W.R., **Landau, A.Y**., Altman, R.L., Brower, S.H., Taylor, K.A., Weiss, A.K., & Patton, D.U., *Domain expertise, contextual analysis & data protection: Threefold approach to ethical use of visual social media data in research*, Visual research for social change conference, Columbia University, NY (Abstract accepted-conference cancelled due to COVID-19)
March 2020	**Landau, A.Y.,** Topaz, M., & Patton, D.U, *Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Intervention*, Poster presentation. Data Science Institute Day, Columbia University NY. (Online)
January 2019	**Landau, A.Y.,** Eisikovits, Z., & Rafaeli, S., (2019). Coping Strategies for Youth Suffering from Online Interpersonal Rejection: Presentation at the *Proceedings of the 52th Hawaii International Conference on System Sciences*.

Invited Presentations

August 2022	Building an Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Bias Reduction and Future Interventions; University of Texas, T32 Precision Health Methodology Summer Bootcamp 2022 Program
June 2022	*Developing machine learning-based models to help identify child abuse and neglect: key ethical challenges and recommended solutions.* AMIA Clinical Decision Support Workgroup
February 2021	*Artificial Intelligence- Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Intervention*, Data Science Night, Northwestern University, Illinois, USA (Online)
October 2020	*Artificial Intelligence- Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Intervention*, 2nd Annual Michigan Institute for Data Science Consortium for Researchers in Training, Michigan University, Michigan, USA (Online)
April 2020	*Social work in times of uncertainty: Discussion of challenges & innovative solutions for COVID-19*, Jerusalem, Israel (Online)
November 2019	*Coping strategies for youth suffering from online interpersonal rejection*. Critical Media and Digital Studies Columbia University, NYC, NY, USA
September 2019	*Coping strategies for youth suffering from online interpersonal rejection*. Augustin Chaintreu Ph.D. Seminar, Columbia University, NYC, NY, USA
October 2018	*Coping strategies for youth suffering from online interpersonal rejection*. The Digital Research Forum. Tel Aviv University, Tel-Aviv, Israel.

December 2015 *Online rejection among youth*. Online Social Supervision. The Hebrew University of Jerusalem, Jerusalem, Israel.

Organization of Conferences or Sessions

October 2022 EAAMO'22, Online, Equity and Access in Algorithms, Mechanisms, and Optimization, Program Committee

March 2022 Best Data Science Student Course Project competition at Columbia University, Competition Judge

October 2021 EAAMO'21, Online, Equity and Access in Algorithms, Mechanisms, and Optimization, Program Committee

Publications

Referred Publications

- Patton, D.U., Aguilar, N.J., **Landau, A.Y**., et al., Community recommendations for preventing gun violence: A mixed method approach. *Preventive Medicine* (In Press).
- Aguilar, N.J., **Landau, A.Y**., Mathiyazhagan, S., Auyeung. A., Dillard, S., & Patton, D.U., Applying Reflexivity to Artificial Intelligence for Researching Marginalized Communities and Real-World Problems. *Proceedings of the 56th Hawaii International Conference on System Sciences* (in press)
- **Landau, A.Y.,** Blanchard, A., Atkins, N., Salazar, S., Cato, K., Patton, D.U., & Topaz, M., Black and Latinx primary caregiver considerations for developing and implementing a machine learning-based model for detecting child abuse and neglect with implications for racial bias reduction: A qualitative study. *JMIR Formative Research* (In Press).
- Song, J., Topaz, M., **Landau, A.Y**, Kiltzman, R., Shang, J., Stone, P.W. McDonald, M.V., & Cohen, B. (2022) Using Natural Language Processing to Identify Acute Care Patients Who Lack Advance Directives, Decisional Capacity, and Surrogate Decision Makers. *PLoS ONE 17(7): e0270220.*
- **Landau, A.Y.,** Ferrarello, S., Blanchard, A., Cato, K., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., (2022) Developing machine learning-based models to help identify child abuse and neglect: key ethical challenges and recommended solutions. *Journal of the American Medical Informatics Association*. 29:3, 576-580.
- **Landau, A.Y.,** Blanchard, A., Cato, K., Atkins, N., Salazar, S., Patton, D.U., & Topaz, M., (2022) Considerations for Development of Child Abuse and Neglect Phenotype with Prioritizing Reduction of Racial Bias: A Qualitative Study. *Journal of the American Medical Informatics Association*. 29:3, 512-519.
- Patton, D.U**.,** Mathiyazhagan, S., **Landau, A.Y.,** (2021) Meet them where they are: A social work informed the conceptual framework for youth inclusion in AI violence prevention systems: *MIT Press*. (All authors contributed equally)
- **Landau, A.Y.,** Eisikovits, Z., & Rafaeli, S., (2019). Coping Strategies for Youth Suffering from Online Interpersonal Rejection: *Proceedings of the 52th Hawaii International Conference on System Sciences*, 2176-2185.

Submitted Manuscripts

- Weiss, A.K., Kanitkar, A.S., Altman, R.L., **Landau, A.Y**., Patton, D.U., *White and non-white mass shooting perceptions in news articles*. (Under Review after Minor revision- Humanities and Social Sciences Communications; Nature Research journal)

Manuscripts in Progress

- **Landau, A.Y.**, Song, J., Topaz, M., Kiltzman, R., Shang, J., Stone, P.W. McDonald, M.V., & Cohen, B. Barriers for Planning Advance Directives, Decisional Capacity, and Surrogate Decision Makers in Home Health Care: Qualitative Study
- **Landau, A.Y.,** Blanchard, A., Patton, D.U., Topaz, M., & Cato, K. *The Development of Child Abuse and Neglect Machine Learning-based Model in ED Settings with implications for racial bias reduction*
- Aguilar, N.J., **Landau, A.Y**., Taylor, K.A., & Patton, D.U., Exploring the Online Grieving Practices of Black Youth Through Image-Focused Content
- Robertson, D., Williams, M., Ren, T., Mathiyazhagan, S., Willis, H., **Landau, A.Y**., Patton, D.U., Cogburn, C., Metaverse and the future of social work (Abstract Accepted- Journal of Computer-Mediated Communication)
- Patton, D.U., Ren, T., Mathiyazhagan, S., & **Landau, A.Y**., Anti-Racist Approaches to Qualitative Methods in Data Science (Abstract Accepted- Harvard Data Science Review)
- Song, J., Topaz, M., **Landau, A.Y.**, Kiltzman, R., Shang, J., Stone, P.W. McDonald, M.V., & Cohen, B. (2022) Identifying Patients Who Lack Advance Directives, Decisional Capacity, and Surrogate Decision Makers in Home Health Care: Natural Language Processing Study
- **Landau, A.Y.,** Eisikovits, Z., & Rafaeli, S., The experience of interpersonal rejection among youth: Manifestations of everyday online and offline forms of rejection.
- **Landau, A.Y**., Eisikovits, Z., & Rafaeli, S., Youth Reacting to Coexisting Forms of Online and Offline Social Rejection

Organization of Conferences or Sessions

2022 Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO), Program Committee. (ACM Conference)

2021 Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO), Program Committee. (ACM Conference)

Grants

2021-2022 **Minerva Grant**
Artificial Intelligence-Assisted Identification of Elder Mistreatment in Clinical Settings
Principal Investigator: **Aviv Y. Landau**
Principal Investigator: Zvi Eisikovits
Principal Investigator: Tova Band-Winterstein
Direct Costs: 36,000 Euros

2020-2022 **Seeds Funds Program, The Data Science Institute, Columbia University**
Artificial Intelligence-Assisted Identification of Child Abuse and Neglect in Hospital Settings with Implications for Racial Bias Reduction and Future Interventions
Principal Investigator: **Aviv Y. Landau**
Principal Investigator: Maxim Topaz
Co-investigator: Desmond U. Patton
Direct Costs: $175,000

Submitted Grants

2022 **Identifying and Reducing Stigmatizing Language in Home Healthcare (NIH-R01)**
Principal Investigator: Maxim Topaz
Consultant: **Aviv Y. Landau**

External Reviewer

- Journal: Journal of Interpersonal Violence
- Journal: New Media & Society
- Journal: Journal of Adolescent Research
- Journal: Society & Welfare (published in Hebrew)
- Conference: EAAMO'21
- Conference: EAAMO'22
- Conference: AMIA 2022 Clinical Informatics Conference
- Conference: HICSS

From the press

https://datascience.columbia.edu/dsi-postdoctoral-fellow-aviv-landau-modernizing-social-work-profession-data-science-techniques