

Filed Under Seal

Exhibit X

Expert Report – Highly Confidential

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF CALIFORNIA**

PEOPLE OF THE STATE OF CALIFORNIA,
et al.,
Plaintiffs,

v.

META PLATFORMS, INC, and Instagram,
LLC,
Defendants

IN RE: SOCIAL MEDIA ADOLESCENT
ADDICTION/PERSONAL INJURY
PRODUCTS LIABILITY LITIGATION

THIS DOCUMENT RELATES TO:
4:23-cv-05448

MDL No. 3047

Case No. 4:23-cv-05448-YGR

Judge: Hon. Yvonne Gonzalez Rogers

Magistrate Judge: Hon. Peter H. Kang

**CORRECTED TRIAL REPORT OF RYAN SHEATSLEY
MAY 6, 2026**

Expert Report – Highly Confidential

The undersigned hereby certifies their understanding that they owe a primary and overriding duty of candor and professional integrity to help the Court on matters within their expertise and in all submissions to, or testimony before, the Court. The undersigned further certifies that their report and opinions are not being presented for any improper purpose, such as to harass, cause unnecessary delay, or needlessly increase the cost of litigation.

A handwritten signature in black ink, reading "Ryan Sheatsley". The signature is written in a cursive, flowing style with a long horizontal stroke at the end.

Dr. Ryan Sheatsley

Expert Report of Ryan Sheatsley, Ph.D.

APPENDIX B

Materials Considered

Highly Confidential

- Letter from Meta Defendants dated November 13, 2025, regarding A. Blanaru deposition
- Letter from State Attorneys General dated August 20, 2025 re Meta 30(b)(6) deposition
- March 12, 2025 Correspondence from Philip Irwin, outside counsel for Meta
- April 18, 2025 Correspondence from Philip Irwin, outside counsel for Meta
- August 5, 2025 Correspondence from Philip Irwin, outside counsel for Meta
- October 3, 2025 Correspondence from Cecilia Bobbitt, outside counsel for Meta
- Deposition of Ana Blanaru, October 7, 2025, Transcript, Exhibits, and Errata
- Deposition of Allison Hartnett, June 16-17, 2025, Transcripts, Exhibit, and Errata
- Deposition of Lars Backstrom, June 26, 2025, Transcripts, Exhibits, and Errata
- Expert Rebuttal Report of Nick Feamster, Ph.D., January 9, 2026, technical back up materials, and materials cited
- Expert Rebuttal Report of Mary Catherine Wirth, January 9, 2026, and materials cited
- Second Corrected Trial Report of Patrick McDaniel, February 13, 2026 and technical supplement
- Reply Report of Patrick McDaniel, February 13, 2026 and technical supplement
- Deposition of Lars Backstrom, December 10, 2025, Transcripts and Exhibits
- Meta Defendants' Responses to Written Deposition Questions Identified in ECF No. 2441, dated December 12, 2025
- Letter from Meta Defendants dated April 15, 2025, regarding META3047MDL_RVOL196_27
- Letter from Meta Defendants dated January 15, 2026, regarding META3047MDL_VOL300
- Corrected Letter from Meta Defendants dated January 23, 2026, regarding META3047MDL_VOL245
- Corrected Letter from Meta Defendants dated January 23, 2026, regarding META3047MDL_VOL258
- Letter from Meta Defendants dated February 25, 2026, regarding META3047MDL_VOL308

Academic Articles and Books

- Joseph Bonneau et al., Passwords and the Evolution of Imperfect Authentication (2015), <https://www.cl.cam.ac.uk/~fms27/papers/2015-BonneauHerOorSta-passwords--author.pdf>
- Cho, Clare Y., Identifying Minors Online, CRS Report No. R47884 (Sept. 23, 2025), <https://www.congress.gov/crs-product/R47884>
- Matt Bishop, Computer Security: Art and Science, 2nd Ed. (2003), <https://books.google.com/books?id=pfdBiJNfWdMC&printsec=frontcover#v=onepage&q&f=false> at Chapter 12

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- Patrick McDaniel, Computer and Network Authentication, Handbook of Information Security, John Wiley and Sons (2004), Eds. Hossein Bidgoli., <https://patrickmcdaniel.org/pubs/mcdaniel-authentication.pdf>
- Prevalence and Patterns of Social Media Use in Early Adolescents, Academic Pediatrics (May-June 2024) <https://www.academicpedsjnl.net/action/showPdf?pii=S1876-2859%2825%2900009-9>
- Data Mining: Concepts and Techniques: Fourth Edition. Jiawei Han, Jian Pei, Hanghang Tong. ISBN: 978-0-12-811760-6

Standards

- Cybersecurity & Infrastructure Security Agency, Identity and Access Management Recommended Best Practices for Administrators (Dec. 2023), https://www.cisa.gov/sites/default/files/2023-12/ESF%20IDENTITY%20AND%20ACCESS%20MANAGEMENT%20RECOMMENDED%20BEST%20PRACTICES%20FOR%20ADMINISTRATORS%20PP-23-0248_508C.pdf

Websites and Online Content

- Uzair Hasa, The Evolution of User Authentication: From Passwords to Passkeys, TechBullion (2024), <https://techbullion.com/the-evolution-of-user-authentication-from-passwords-to-passkeys/>
- Pew Research Center, Americans' Social Media Use in 2024, <https://www.pewresearch.org/internet/2024/01/31/americans-social-media-use/>
- Sarah Forland et al., Age Verification: The Complicated Effort to Protect Youth Online, New America (Apr. 23, 2024), <https://www.newamerica.org/oti/reports/age-verification-the-complicated-effort-to-protect-youth-online/>
- Okta, Authentication vs. Authorization, <https://www.okta.com/identity-101/authentication-vs-authorization/>
- Federal Trade Commission, A Look Behind the Screens Examining the Data Practices of Social Media and Video Streaming Services, FTC (Sept. 2024), <https://www.ftc.gov/reports/look-behind-screens-examining-data-practices-social-media-video-streaming-services>
- Federal Trade Commission, 6(B) SMVSS STUDY SAMPLE ORDER (2020), https://www.ftc.gov/system/files/documents/reports/6b-orders-file-special-reports-social-media-service-providers/6bs_order_os_final.pdf
- Neiswnder, C. et. al., Youth Perspectives on Online Safety, 2022: an Annual Report of Youth Attitudes and Experiences, Thorn (Nov. 2023), https://info.thorn.org/hubfs/Research/22_YouthMonitoring_Report.pdf

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- Neiswnder, C. et. al., Youth Perspectives on Online Safety, 2023, Thorn (Aug. 2024), https://info.thorn.org/hubfs/Research/Thorn_23_YouthMonitoring_Report.pdf
- Rideout, V., Peebles, A., Mann, S., & Robb, M. B., Common Sense census: Media use by tweens and teens, 2021. Common Sense Media (2022), https://www.commonsensemedia.org/sites/default/files/research/report/8-18-census-integrated-report-final-web_0.pdf
- Facebook, Report the account of a person who doesn't meet our age requirements, <https://www.facebook.com/help/contact/209046679279097>
- Instagram, Report an Underage User on Instagram, <https://help.instagram.com/contact/723586364339719>