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EDUCATION

Ph.D., Economics, University of California, Los Angeles, 1998
Fields: Industrial Organization and Game Theory
M.A., Economics, University of California, Los Angeles, 1996
B.A., *Summa cum Laude*, Economics and Political Science, University of California, San Diego, 1993

PRESENT POSITION

Berkeley Research Group, LLC

Managing Director: 2010-Present

Executive Vice President: 2010-2011

OTHER PROFESSIONAL EXPERIENCE

LECG, LLC

Director: 2008–2010

Various Positions: 1998-2007

University of California, Los Angeles

Teaching Assistant and Research Assistant: 1994-1998

Economic Analysis Corporation

Intern Economist: 1997

ARTICLES AND PUBLICATIONS

1. “Microsoft’s Licensing Agreements: Theory and Evidence on the Sale of MS-DOS and Windows,” *Journal of Corporation Law*, Vol. 24, No.3, Spring 1999, 554-602.
2. “Updates on Important U.S. Antitrust Cases” (with Edward Sherry), *Trade Practices Law Journal*, Vol. 9, June 2001, 120-124.
3. “*De Facto* Exclusive Dealing and the *Concord Boat* Case” (with Bret Dickey), *Trade Practices Law Journal*, Vol. 9, December 2001, 281-286.

4. “The Telecommunications Act of 1996 and the U.S. Antitrust Laws” (with Christopher J. Pleatsikas), *Trade Practices Law Journal*, Vol. 11, December 2003, 260-263.
5. “Sovereign Default and the Sustainability Risk Premium Effect” (with Fabio Kanczuk), *Journal of Development Economics*, Volume 76, Issue 1, February 2005, 53-69. “The Telecommunications Act of 1996 and the U.S. Antitrust Laws” (with Christopher J. Pleatsikas), *Trade Practices Law Journal*, Vol. 11, December 2003, 260-263.
6. “An Economic Perspective on Damages Calculations: Common Problems in Specifying the But-For World” (with Christopher J. Pleatsikas), in Current Trends and Issues in Antitrust Litigation: 2010, Chapter 6, Practising Law Institute, 2010.
7. “Foreclosure,” in The Palgrave Encyclopedia of Strategic Management, edited by David J. Teece and Mie Augier, January 2014.
8. “IP Valuation in the Digital Economy” (with Arvin Patel and Rebbecca Reed-Arthurs), *Intellectual Asset Management Magazine*, July/August 2014.
9. “Patent Enforcement in an Uncertain World: Widespread Infringement and the Paradox of Value for Patented Technologies” (with John A. Blair and David J. Teece), *Criterion Journal on Innovation*, Vol. 1, 2016.
10. “Conjoint Analysis: Applications in Antitrust Litigation” (with Rebbecca Reed-Arthurs and J. Douglas Zona), Handbook of Marketing Analytics, edited by Natalie Mizik and Dominique M. Hanssens, Edward Elgar Publishing, Inc., 2018.
11. “Resolving Bargaining Range Indeterminacy in Patent Damages after *VirnetX*” (with Rebbecca Reed-Arthurs and David J. Teece), *Research in Law and Economics*, The Law and Economics of Patent Damages, Antitrust, and Legal Process, Volume 29 (2021).

WORKING PAPERS

1. “Complementary Goods, Innovation, and Bilateral Underinvestment” (with David P. Cooper)
2. “The Competitive Effects of Exclusive Dealing”
3. “Political Gridlock as a Fiscal Policy Commitment Device” (with Fabio Kanczuk)
4. “Term Limits and Term Lengths” (with Fabio Kanczuk)

HONORS AND AWARDS

UCLA Business and Economics Society Fellowship, 1997-1998

Pauley Foundation Fellowship, 1993-1997

UCLA Department of Economics, Certificate of Merit for Outstanding Performance as a Teaching Assistant, 1995

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Member, American Economic Association, 1997-Present

Associate Member, American Bar Association, Antitrust Section, 2001-Present

Member, Latin American and Caribbean Economic Association, 1997-1999

Referee, *Journal of Applied Economics*, 1999-2000

Referee, *International Journal of the Economics of Business*, 2000

EXPERT REPORTS, DECLARATIONS, AND TESTIMONY

1. *Deerinck, et al. v. Save Mart Supermarkets*. Superior Court of California, County of San Joaquin. Report (June 2008); Deposition Testimony (June 2008); and Declaration (June 2009).
2. *Ronald A. Katz Technology Licensing, L.P. v. Consolidated Edison Company of New York, et al.* United States District Court, Central District of California. Declaration (March 2009); and Declaration (March 2009).
3. *TSMC North America v. Semiconductor Manufacturing International Corporation*. Superior Court of California, County of Alameda. Declaration (August 2009).
4. *John Karamanos, Advanced Microtherm, Inc., and HVAC Sales, Inc. vs. Norman Wright Mechanical Equipment Corporation, et al.* United States District Court, Northern District of California. Report (January 2010); Rebuttal Report (February 2010); Deposition Testimony (March 2010); Declaration (April 2010); Declaration (May 2010); Bench Hearing Testimony (June 2010); Declaration (July 2010); and Jury Trial Testimony (October 2010).
5. *Gemalto S.A. v. HTC Corporation, et al. Case No. 6:10-cv-00561*. United States District Court, Eastern District of Texas. Report (December 2012); Supplemental Report (January 2013); and Deposition Testimony (January 2013).
6. *Federal Deposit Insurance Company, as Receiver for Washington Mutual Bank v. LSI Appraisal, LLC and LPS Property Tax Solutions, Inc., f/k/a Fidelity National Tax Service, Inc. Case No. SACV11-706*. United States District Court, Central District of California. Report (April 2013); Rebuttal Report (September 2013); Deposition Testimony (October 2013); Declaration (November 2013); and Declaration (January 2014).
7. *Federal Deposit Insurance Company, as Receiver for Washington Mutual Bank v. CoreLogic Valuation Services, LLC, f/k/a eAppraiseIT, LLC and CoreLogic Real Estate Solutions, LLC, f/k/a First American Real Estate Solutions, LLC. Case No. SACV11-704*. United States District Court, Central District of California. Report (May 2013); Rebuttal Report (December 2013); and Deposition Testimony (January 2014).
8. *Wi-LAN Inc. v. HTC Corporation, HTC America, Inc., and Exedea, Inc. Case No. 2:11-CV-68-JRG and Wi-LAN Inc. v. Apple, Inc., et al. Case No. 2:11-cv-00068*. United States District Court, Eastern District of Texas. Report (July 2013); Rebuttal Report (August 2013); Deposition

Testimony (August 2013); Supplemental Report (September 2013); and Jury Trial Testimony (October 2013).

9. Everspin Technologies Inc. v. NVE Corporation. Case No. 0:12-cv-00474-ADM-FLN. United States District Court, District of Minnesota. Report (March 2014).
10. Mortgage Grader Inc. v. Costco Wholesale Corp.; First Choice Loan Services, Inc.; and NYLX Inc. Case No. 8:13-cv-00043. United States District Court, Central District of California. Report (July 2014); and Deposition Testimony (December 2014).
11. PharmaInvest LLC v. Aminopterin, LLC and John A. Zebala. Case No. CGC-14-540584. Superior Court of California, County of San Francisco. Declaration (November 2014).
12. O.S. Security LLC v. Sargent Manufacturing Company, et al. Case No. SA CV 14-00318. United States District Court, Central District of California (Southern Division). Report (May 2015).
13. O.S. Security LLC v. First Alert, Inc. et al. Case No. SACV 14-00310; and O.S. Security LLC v. Schlage Lock Company LLC, et al. Case No. SA CV 14-00319. United States District Court, Central District of California (Southern Division). Report (May 2015); and Deposition Testimony (July 2015).
14. BMC Software, Inc. v. ServiceNow, Inc. No. 2:14-cv-903. United States District Court, Eastern District of Texas. Report (November 2015); Deposition Testimony (December 2015); Supplemental Report (February 2016); and Deposition Testimony (February 2016).
15. PersonalWeb Technologies, LLC and Level 3 Communications, LLC v. International Business Machines Corporation. Case 5:16-cv-01266-EJD. United States District Court, Northern District of California. Report (December 2016); Deposition Testimony (February 2017); Supplemental Report (July 2017); and Deposition Testimony (August 2017).
16. Federal Deposit Insurance Company, as Receiver for Washington Mutual Bank v. Arch Insurance Company, et al. No. 2:14-cv-00545-RSL. United States District Court, Western District of Washington at Seattle. Declaration (May 2017); and Report (February 2018).
17. *In the Matter of Certain Audio Processing Hardware, Software, and Products Containing the Same (on Behalf of Complainant Andrea Electronics Corp.)*. United States International Trade Commission. Investigation No. 337-TA-1026. Report (May 2017); Rebuttal Report (June 2017); Deposition Testimony (June 2017); and Bench Trial Testimony (August 2017).
18. Sycamore IP Holdings LLC v. AT&T Corp., et al. Case No. 2:16-CV-588-WCB Lead Case. United States District Court, Eastern District of Texas. Reports (August 2017); Supplemental Report (August 2017); Deposition Testimony (September 2017); Supplemental Reports (September 2017); and Supplemental Report (December 2017).

19. *Team Express Distributing LLC v. Junction Solutions, Inc. et al.* No. 5:15-CV-994-DAE. United States District Court, Western District of Texas. Report (August 2017); Rebuttal Report (October 2017); and Deposition Testimony (October 2017).
20. *In the Matter of Certain Semiconductor Devices, Semiconductor Device Packages, and Products Containing Same (on Behalf of Complainants Tessera Technologies Inc., Tessera, Inc., and Invensas Corporation.)*. United States International Trade Commission. Investigation No. 337-TA-1010. Declaration (October 2017).
21. *Optis Wireless Technology, LCC, et al v. Huawei Technologies Co. LTD, et al.* Civil Action No. 2:17-cv-123. United States District Court, Eastern District of Texas. Report (March 2018); Deposition Testimony (May 2018); Supplemental Report (August 2018); Jury Trial Testimony (August 2018); Bench Trial Testimony (August 2018); and Declaration (September 2018).
22. *f'real Foods LLC and Rich Products Corporation v. Hamilton Beach Brands Inc., et al.* C.A. No. 16-41 (GMS) Consolidated. United States District Court, District of Delaware. Report (August 2018); Rebuttal Report (September 2018); Deposition Testimony (October 2018); Deposition Testimony (October 2018); Supplemental Report (April 2019); Jury Trial Testimony (April 2019); Declaration (September 2019); and Declaration (July 2020).
23. *Invensas Corporation v. Samsung Electronics Co., LTD and Samsung Electronics America, Inc.* Civil Action No. 2:17-cv-670. United States District Court, Eastern District of Texas. Report (September 2018); Supplemental Report (October 2018); and Deposition Testimony (November 2018).
24. *Calendar Research LLC v. StubHub Inc., et al.* Civil Action No. 2:17-cv-04062. United States District Court, Central District of California. Rebuttal Report (February 2019); and Deposition Testimony (March 2019).
25. *In the Matter of Certain Multi-Stage Fuel Vapor Canister Systems and Activated Carbon Components Thereof (on Behalf of Respondents MAHLE and Kuraray)*. United States International Trade Commission. Investigation No. 337-TA-1040. Report (August 2019); Deposition Testimony (August 2019); Supplemental Report (October 2019); and Bench Trial Testimony (November 2019).
26. *In the Matter of Certain Integrated Circuits and Products Containing the Same (on Behalf of Complainant Tela Innovations)*. United States International Trade Commission. Investigation No. 337-TA-1048. Report (August 2019); Rebuttal Report (September 2019); Deposition Testimony (October 2019); and Bench Trial Testimony (December 2019).
27. *Huawei Technologies Co., Ltd., et al v. PanOptis Patent Management LLC, et al.* Shenzhen (China) Intermediate People's Court. Report (September 2019); Bench Trial Testimony (September 2019); Rebuttal Report (September 2019); and Rebuttal Report (December 2019).

28. *Blackberry Limited v. Facebook, Inc., et al. Case No. 2:18-cv-01844*. United States District Court, Central District of California. Report (October 2019); Supplemental Report (November 2019); and Deposition Testimony (December 2019).
29. *TravelPass Group, LLC, et al. v. Expedia Inc., et al. AAA No. 01-17-002-2312*. American Arbitration Association. Rebuttal Report (December 2019); and Deposition Testimony (December 2019).
30. *Sharidan Stiles, et al v. Walmart Inc., et al. Case No. 2:14-cv-02234-MCE-DMC*. United States District Court, Eastern District of California. Report (May 2020); and Declaration (May 2020).
31. *In the Matter of Certain Wearable Monitoring Devices, Systems, and Components Thereof (on Behalf of Complainants Philips North America, LLC and Koninklijke Philips N.V.)*. United States International Trade Commission. Inv. No. 337-TA-1190. Report (July 2020); Deposition Testimony (August 2020); and Bench Trial Testimony (October 2020).
32. *Cytonome/ST, LLC v. NanoCollect Biomedical, Inc. C.A. No. 19-301 (RGA)*. United States District Court, District of Delaware. Report (August 2020); Reply Report (September 2020); and Deposition Testimony (October 2020).
33. *The Hillman Group, Inc. v. KeyMe, LLC. C.A. Nos. 2:19-cv-00209-JRG and 2:20-CV-00070-JRG*. United States District Court, Eastern District of Texas, Marshall Division. Report (August 2020); Deposition Testimony (August 2020); Report (January 2021); Deposition Testimony (January 2021); and Jury Trial Testimony (April 2021).
34. *Philips North America, LLC v. Garmin International Inc. and Garmin Ltd. Case No. 2:19-cv-6301-AB-KS*. United States District Court, Central District of California. Report (December 2020); and Deposition Testimony (February 2021).
35. *KeyMe, LLC v. The Hillman Group, Inc. Civil Action No. 1:19-cv-1539-LPS*. United States District Court, District of Delaware. Report (February 2021); Report (March 2021); and Deposition Testimony (April 2021).
36. *Marco Doda, et al. v. Waste Management, Inc., et al. C.A. No. 17-604 (CFC) (SRF)*. United States District Court, District of Delaware. Declaration (March 2021); Report (April 2021); and Deposition Testimony (May 2021).
37. *In the Matter of Certain Light-Emitting Diode Products, Fixtures, and Components Thereof (on behalf of Respondent RAB Lighting Inc.)*. United States International Trade Commission. Investigation No. 337-TA-1213. Report (March 2021); Deposition Testimony (April 2021); and Bench Trial Testimony (May 2021).
38. *In the Matter of Certain Digital Video-Capable Devices and Components Thereof (on behalf of Complainants Koninklijke Philips N.V. and Philips North America LLC)*. United States

- International Trade Commission. Investigation No. 337-TA-1224. Report (April 2021); Rebuttal Report (April 2021); Deposition Testimony (May 2021); and Bench Trial Testimony (July 2021).
39. *Diebold Nixdorf, Inc. and Diebold Self Service Systems v. Hyosung TNS, Inc. and Nautilus Hyosung America Inc.* C.A. No. 19-1695 (LPS). United States District Court, District of Delaware. Report (April 2021); and Supplemental Reports (May 2021).
 40. *Intellectual Ventures I LLC v. Bouygues Telecom and Huawei Technologies France*. RG 18/00406. Paris (France) Judicial Court. Report (June 2021); and Report (November 2021).
 41. *Intellectual Ventures I LLC v. Société Française du Radiotéléphone and Huawei Technologies France*. RG 18/00407. Paris (France) Judicial Court. Report (June 2021); and Report (November 2021).
 42. *In the Matter of Certain UMTS and LTE Cellular Communications Modules and Products Containing the Same (on behalf of Complainants Koninklijke Philips N.V. and Philips North America, LLC)*. United States International Trade Commission. Investigation No. 337-TA-1240. Report (July 2021); Rebuttal Report (July 2021); Deposition Testimony (August 2021); Supplemental Report (August 2021); and Bench Trial Testimony (October 2021).
 43. *Netlist Inc. v. Samsung Electronics Co., Ltd. Case No. 8:20-cv-993-JAK (DFMx)*. United States District Court, Central District of California, Southern Division. Report (August 2021); Deposition Testimony (September 2021); and Jury Trial Testimony (December 2021).
 44. *In the Matter of Certain Televisions, Remote Controls, and Components Thereof (on behalf of Complainant Roku, Inc.)*. United States International Trade Commission. Investigation No. 337-TA-1263. Report (October 2021); and Bench Trial Testimony (January 2022).
 45. *Philips North America, LLC v. Fitbit, Inc. C.A. No. 1:19-cv-11586-IT*. United States District Court, District of Massachusetts. Report (November 2021); and Deposition Testimony (January 2022).
 46. *In the Matter of Certain Wearable Electronic Devices with ECG Functionality and Components Thereof (on behalf of Complainant AliveCor, Inc.)*. United States International Trade Commission. Investigation No. 337-TA-1266. Report (December 2021); Deposition Testimony (February 2022); and Bench Trial Testimony (March 2022).
 47. *In the Matter of Certain Residential Premises Security Monitoring and Automation Control Panels, and Components Thereof (on behalf of Respondent Vivint, Inc.)*. United States International Trade Commission. Investigation No. 337-TA-1273. Report (February 2022); and Deposition Testimony (March 2022).
 48. *NeuralMagic, Inc. v. Facebook, Inc. Case No. 1:20-cv-1 0444-DJC*. United States District Court, District of Massachusetts. Report (April 2022); and Deposition Testimony (June 2022).

49. *In the Matter of Certain Mobile Phones and Tablet Computers, All with Switchable Connectivity (on behalf of Complainants Ericsson Inc. and Telefonaktiebolaget LM Ericsson)*. United States International Trade Commission. Investigation No. 337-TA-1301. Report (July 2022); Rebuttal Report (August 2022); Deposition Testimony (August 2022); and Bench Trial Testimony (November 2022).
50. *In the Matter of Certain Mobile Phones, Tablet Computers, Smart Watches, Smart Speakers, and Digital Media Players, and Products Containing Same (on behalf of Complainants Ericsson Inc. and Telefonaktiebolaget LM Ericsson)*. United States International Trade Commission. Investigation No. 337-TA-1300. Report (August 2022); Rebuttal Report (September 2022); and Deposition Testimony (September 2022).
51. *In the Matter of Certain Mobile Telephones, Tablet Computers with Cellular Connectivity, and Smart Watches with Cellular Connectivity, Components thereof, and Products Containing Same (on behalf of Complainants Ericsson Inc. and Telefonaktiebolaget LM Ericsson)*. United States International Trade Commission. Investigation No. 337-TA-1299. Report (September 2022); Rebuttal Report (September 2022); and Deposition Testimony (September 2022).
52. *In the Matter of Certain Automated Put Walls and Automated Storage and Retrieval Systems, Associated Vehicles, and Associated Control Software, and Component Parts Thereof (on behalf of Complainant OPEX Corporation)*. United States International Trade Commission. Investigation No. 337-TA-1293. Report (September 2022); Deposition Testimony (September 2022); and Bench Trial Testimony (November 2022).
53. *In the Matter of Certain Wet Dry Surface Cleaning Devices (on behalf of Complainants BISSELL Inc. and BISSELL Homecare, Inc.)*. United States International Trade Commission. Investigation No. 337-TA-1304. Report (September 2022); Rebuttal Report (October 2022); Deposition Testimony (October 2022); and Bench Trial Testimony (December 2022).
54. *In the Matter of Certain Video Processing Devices and Products Containing the Same (on behalf of Complainant VideoLabs Inc.)*. United States International Trade Commission. Investigation No. 337-TA-1323. Report (February 2023); Rebuttal Report (March 2023); and Deposition Testimony (March 2023).