

## TIM KRAFT

Poole College of Management  
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Raleigh, NC 27695

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Revised: 08/22

### ACADEMIC APPOINTMENTS

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#### **North Carolina State University, Poole College of Management**

Associate Professor of Operations Management	2021 - present
Assistant Professor of Operations Management	2019 - 2021
Associate Research Director of Supply Chain Resource Cooperative	2019 - present

#### **Massachusetts Institute of Technology, Sloan School of Management**

Assistant Professor (Visiting) of Operations Management	2018-2019
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#### **University of Virginia, Darden School of Business**

Assistant Professor of Business Administration	2011-2018
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### EDUCATION

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<b>Stanford University,</b> Ph.D. Management Science and Engineering	2006-2011
<b>The University of Texas at Austin,</b> M.B.A/M.S. Mechanical Engineering	2002-2005
<b>Georgia Institute of Technology,</b> B.S. Industrial Engineering	1994-1999

### RESEARCH/TEACHING INTERESTS

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Research: Environmentally and Socially Responsible Supply Chains; Nonprofit Operations Management; Supply Chain Management; Behavioral Operations Management

Teaching: Operations and Supply Chain Management; Sustainability; Lean Manufacturing

### PUBLICATIONS

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Kraft T., L. Valdés, Y. Zheng. "Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility," forthcoming at *Production and Operations Management*.

Kraft T., Y. Zheng (Fall 2021). "Supply Chain Transparency Boosts Business Value," *Sloan Management Review*, 63(1): 34-40.

Erhun F., T. Kraft, S. Wijnsma (2021). “Sustainable Triple-A Supply Chains,” *Production and Operations Management* Special Issue on AAA Global Values Chains in the Digital Age (invited), 30(3): 644 - 655.

Kraft T., L. Valdés, Y. Zheng (2020). “Motivating Supplier Social Responsibility under Incomplete Visibility,” *Manufacturing & Service Operations Management* Special Issue on Responsible Operations and Supply Chain Management, 22(6): 1268 – 1286.

Karaer Ö., T. Kraft, P. Yalçın (2020). “Supplier Development in a Multi-tier Supply Chain,” *IIE Transactions* (formerly *IIE Transactions*), 52(4): 464 - 477.

Kraft T., L. Valdés, Y. Zheng (2018). “Supply Chain Visibility and Social Responsibility: Investigating Consumers' Behaviors and Motives,” *Manufacturing & Service Operations Management*, 20(4): 617 - 636.

- Finalist 2021 M&SOM Best Paper Award
- 2<sup>nd</sup> place 2015 Behavioral Operations Management Best Working Paper Award
- 1<sup>st</sup> place 2015 POMS College of Sustainable OM Student Paper Competition (Student: L. Valdés)

Kraft T., G. Raz (2017). “Collaborate or Compete: Examining Manufacturers’ Replacement Strategies for a Substance of Concern,” *Production and Operations Management*, 26(9): 1646 - 1662.

Karaer Ö., T. Kraft, J. Khawam (2017). “Buyer and Nonprofit Levers to Improve Suppliers’ Environmental Performance,” *Production and Operations Management* Special Issue on Not-for-Profit Operations Management, 26(6): 1163 - 1190.

Kraft T., Y. Zheng, F. Erhun (2013). “The NGO’s Dilemma: How to Influence Firms to Replace a Potentially Hazardous Substance,” *Manufacturing & Service Operations Management* Special Issue on the Environment, 15(4): 649 - 669.

Kraft T., F. Erhun, R. Carlson, D. Rafinejad (2013). “Replacement Decisions for Potentially Hazardous Substances,” *Production and Operations Management* Special Issue on New Product Development, Innovation, and Sustainability, 22(4): 958 - 975.

## **RESEARCH IN PROGRESS**

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Kraft T., X. Liu, R.B. Handfield, H. Heese, B. Soundararajan. “Examining the Impact of Monitor Leniency on Supplier Audits”.

Mohammadi M., H. Heese, T. Kraft. “Environmental Regulation Design: Motivating Firms’ Clean Technology Investments with Penalties and Consumer Subsidies”.

Golmohammadi A., T. Kraft, S.A. Monemian. “Setting the Deadline and the Penalty Policy for a New Environmental Standard”.

Tripathy M., H. Heese, T. Kraft. “Competitive Implications of Spectrum Sub-Leasing on Optimal Price, Quality and Sourcing Decisions”.

Yu J., T. Kraft, R. Handfield, R. Hasan, M. Moore. “The Effects of CSR Performance and Price on Consumer Purchase Decisions”.

Hämäläinen M., T. Kraft, D. Thomas, Y. Zheng. “Stories vs. Numbers: Enhancing Consumer Adoption of Socially Responsible Products”.

Simpson D., R.B. Handfield, T. Kraft, M. Segrave. “Corporate Social Responsibility: What does it mean to take responsibility?”.

Karaer Ö., T. Kraft. “NGO Audit Strategies to Improve Supplier Social Responsibility”.

Golmohammadi A., T. Kraft. “Environmental Standards: Government Strategies for Setting Deadlines”.

Kraft T., J. Yu, Y. Zheng. “Building Sustainable, Transparent Supply Chains,” in preparation for *Foundations and Trends in Technology, Information, and Operations Management* (invited).

## **BOOK CHAPTERS/ADDITIONAL PUBLICATIONS**

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Hämäläinen M., T. Kraft, D. Thomas, Y. Zheng (2021). “Supply Chain Transparency at Goodio Chocolate,” (Invited book chapter) *Responsible Business Operations*, V. Deshpande and J. Swaminathan, ed. Springer, 225-241.

Kraft T., Ö. Karaer, K. Sharpe (2016). “Managing the Chemicals and Substances in Products and Supply Chains,” (Invited book chapter) *Environmentally Responsible Supply Chains*, A. Atasu, ed. Springer, 313 - 337.

Zheng Y., T. Kraft, L. Valdés (2016). “Assessing Consumers’ Valuations of Socially Responsible Products with Controlled Experiments,” (Invited book chapter) *Environmentally Responsible Supply Chains*, A. Atasu, ed. Springer, 29 - 50.

Chung Y., F. Erhun, T. Kraft (2013). “Improving Stanford Blood Center’s Platelet Supply Chain,” (Invited book chapter) *The Supply Chain Management Casebook: Comprehensive Coverage and Best Practices in SCM*, C. Munson, ed. Financial Times Press, 39 - 49.

Kraft T., Y. Chung, F. Erhun (2012). “KEY Electronics - Sourcing and Warehouse Analysis,” *INFORMS Transactions on Education*, 12(2): 89 - 99.

- 1<sup>st</sup> place 2010 INFORMS Case Competition

## **CASE STUDIES/TECHNICAL NOTES**

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Alagesan, S., J. Shah under the supervision of T. Kraft (2020) “The New War of the Currents: The Race to Win the Electric Vehicle Market,” Darden Business Publishing, OM-1709 and OM-1709TN.

Shah, J., S. Alagesan under the supervision of R. Handfield and T. Kraft (2020) “A Perfect Storm: Examining the Supply Chain for N95 Masks During COVID-19,” Darden Business Publishing, OM-1708 and OM-1708TN.

- Finalist 2021 INFORMS Case Competition

Hämäläinen, M., T. Kraft, D. Thomas, G. Yemen, M.Y. Zhang, Y. Zheng (2019) “Goodio Supply Chain: A Chocolatey Future?” Darden Business Publishing, OM-1613.

Kraft, T., E. Weiss (2018) “Fisher Manufacturing Company,” Darden Business Publishing, OM-1598 and OM-1599.

Kraft, T., A. Wasden (2017) “Dooly County Doughnuts,” Darden Business Publishing, OM-1572 and OM-1572TN.

Kraft, T. (2016) “Operations Management: An Introduction to Process Analysis,” Darden Business Publishing, OM-1556 and OM-1556TN.

Dorrnsoro, D. under the supervision of T. Kraft (2015) “Pancho’s Burritos,” Darden Business Publishing, OM-1539, OM-1539TN, and OM-1555 (Abridged version).

Elias, A., T. Kraft, G. Raz, J. Hutchison-Krupat (2015) “Eastman Tritan Product Development and Launch,” Darden Business Publishing, OM-1540.

Hutchison-Krupat, J., T. Kraft, E. Weiss (2014) “Belle, Inc.,” Darden Business Publishing, OM-1518 and OM-1518TN.

Goldberg, R., T. Kraft, E. Weiss (2014) “Supply Chain Management at Beautiful Bags,” Darden Business Publishing, OM-1522 and OM-1522TN.

Elias, A., T. Kraft, G. Raz (2013) “Eastman Tritan,” Darden Business Publishing, OM-1494, OM-1494TN, and OM-1494TNV.

- 1<sup>st</sup> place 2013 INFORMS Case Competition

Osborn, M., E. Tang under the supervision of T. Kraft (2013) “NoBull Burger,” Darden Business Publishing, OM-1479, OM-1479TN, and OM-1479TNV.

Metz J. under the supervision of T. Laseter and T. Kraft (2013) “Zappos Customer Loyalty Team: Teaching Note,” Darden Business Publishing, OM-1452TN.

## **TEACHING**

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### **NC State Poole College of Management**

Current courses:

MBA Strategic Operations Management (2020 - present)

MBA (weekend) Sustainable Operations Management (2022 - present)

MBA (weekend) Process Management (2022 - present)

Past courses:

Undergraduate (Wicked Problems Series) Food Supply Chains and COVID-19 (2022)

MBA (weekend) Strategic Supply Chain Management (2021)

MBA Operations Models and Applications (2021; co-instructor with Don Warsing)

MBA Supply Chain Management Practicum (2020)

### **MIT Sloan School of Management**

MBA Introduction to Operations Management (2019)

Operations Lab (2019)

### **Darden Graduate School of Business at the University of Virginia**

First Year MBA Operations Management (2011 - 2018)

- Outstanding Faculty Award: Darden School of Business (2018)

Special Topics Seminar: Danaher Kaizen (Brazil 2015, Finland 2018)

### **Stanford University**

Introduction to Operations Management (Summer 2010; Co-instructor with Yanchong Zheng)

### **Executive Education:**

Current Programs: Global Leaders Program (2017 - present); Partnership for Leaders in Education (2015 - present)

Past Programs: AES Sourcing Leadership Program (2012); AB InBev (2014); Shanghai University (2017 - 2018)

## **GRANTS/FELLOWSHIPS/RESEARCH ASSISTANTSHIPS**

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North Carolina Department of Transportation (2022 – 2023)

- Port Operations Digital Transformation
- Contract amount: \$250,000
- Principal Investigator: Daniel Findley (ITRE, NC State)

Templeton World Charity Foundation (2021 – 2023)

- Responsible Apparel Initiative: Creating a Fair Factory Labor Index
- Award amount: \$1,256,791
- Principal Investigator: Robert Handfield (Poole, NC State); Co-PIs Tim Kraft (Poole, NC State) and Marguerite Moore (Wilson, NC State)

Batten Institute Faculty Grant (2016 – 2017, 2017 - 2018)

3M Nontenured Faculty Grant (2014 – 2016)

Stanford Graduate Fellowship (2006 – 2009)

Research Assistant, Stanford GSB – Global Supply Chain Management Forum (2008)

## **RESEARCH AWARDS**

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### M&SOM Best Paper Award

Finalist 2021: Supply Chain Visibility and Social Responsibility - Investigating Consumers' Behaviors and Motives

Research Leadership Award - Business Management Department, Poole College of Management  
Co-winner 2021 (Rishika Rishika)

### POMS Paul Kleindorfer Award in Sustainability

Co-winner 2020 (Basak Kalkanci, Georgia Tech)

### Behavioral Operations Management Best Working Paper Award

2<sup>nd</sup> place 2015: Supply Chain Visibility and Social Responsibility: Investigating Consumers' Behaviors and Motives

### POMS College of Sustainable Operations Student Paper Competition

1<sup>st</sup> place 2015: Supply Chain Visibility and Social Responsibility: Investigating Consumers' Behaviors and Motives (Student: L. Valdés)

## **TEACHING/CASE AWARDS**

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MIT Teaching with Digital Technology Award (Nominated 2019)

Outstanding Faculty Award: Darden School of Business (2018)

### INFORMS Case Competition

Finalist 2021: A Perfect Storm: Examining the Supply Chain for N95 Masks During COVID-19

1<sup>st</sup> place 2013: Eastman Tritan

1<sup>st</sup> place 2010: KEY Electronics - Sourcing and Warehouse Analysis

## **SERVICE AWARDS**

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Decision Sciences Journal Best Associate Editor (2020)

MSOM Meritorious Service Award (2015, 2020)

POMS Outstanding Reviewer (2015)

Decision Sciences Journal Outstanding Reviewer (2014)

MS&E Course Assistant Award (2009 – 2010)

## **UNIVERSITY/INDUSTRY/KEYNOTE PRESENTATIONS**

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Erasmus University, Rotterdam School of Management (2021). Presented: Examining the Impact of Monitor Leniency on Supplier Audits.

Institute for Supply Management (2021). Presented: Supply Chain Transparency – An Innovative Path Forward.

China’s Sustainable Operations Society, Keynote Speaker (2021). Presented: Sustainable Triple-A Supply Chains.

University of Utah, Eccles School of Business (2019). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

North Carolina State University, Operations Research Seminar (2019). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

The Ohio State University, Fisher College of Business (2018). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

University of Minnesota, Carlson School of Management (2018). Presented: Motivating Supplier Social Responsibility under Incomplete Visibility.

North Carolina State University, Poole College of Management (2018). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

George Mason University, School of Business (2018). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

University of South Carolina, Darla Moore School of Business (2018). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

University of Colorado, Leeds School of Business (2018). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

University of Minnesota, Carlson School of Management (2018). Presented: Consumer Trust in Social Responsibility Communications: The Role of Supply Chain Visibility.

Baruch College (CUNY), Zicklin School of Business (2017). Presented: Supply Chain Visibility and Social Responsibility: Investigating Consumers’ Behaviors and Motives.

Kenan Institute (UNC) – Leadership Summit on Global Commerce (2017). Presented: Supply Chain Visibility and Social Responsibility: Investigating Consumers’ Behaviors and Motives.

Georgetown University, McDonough School of Business (2016). Presented: Supply Chain Visibility and Social Responsibility: Investigating Consumers’ Behaviors and Motives.

Western University, Ivey Business School (2016). Presented: Supply Chain Visibility and Social Responsibility: Investigating Consumers’ Behaviors and Motives.

Green Electronics Council – Emerging Green Conference Roundtable (2015). Presented: Managing the Chemicals and Substances in Products and Supply Chains.

Foster School of Business, University of Washington (2015). Presented: Buyer and Nonprofit Levers to Improve Suppliers’ Environmental Performance.

Smeal College of Business, Penn State University (2015). Presented: Buyer and Nonprofit Levers to Improve Suppliers' Environmental Performance.

Kelley School of Business, Indiana University (2011). Presented: Firm and NGO Decisions Regarding Potentially Hazardous Substances.

Lundquist College of Business, University of Oregon (2011). Presented: Firm and NGO Decisions Regarding Potentially Hazardous Substances.

Darden School of Business, University of Virginia (2011). Presented: Firm and NGO Decisions Regarding Potentially Hazardous Substances.

The George Washington University, School of Business (2010). Presented: Firm and NGO Decisions Regarding Potentially Hazardous Substances.

### **PEER-REVIEWED CONFERENCE PRESENTATIONS<sup>1</sup>**

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2022 MSOM Annual Meeting (Munich, DE), peer-reviewed. Presented: Examining the Impact of Monitor Leniency on Supplier Audits.

2016 Early Career Sustainable OM Workshop (Raleigh, NC), peer-reviewed. Presented: Motivating Supplier Social Responsibility under Incomplete Visibility.

2015 ARCS Annual Meeting (Chicago, IL), peer-reviewed. Presented: Supply Chain Visibility and Social Responsibility: Investigating Consumers' Behaviors and Motives.

2015 MSOM Annual Meeting (Toronto, ON), peer-reviewed. Presented: Buyer and Nonprofit Levers to Improve Suppliers' Environmental Performance.

2012 MSOM Annual Meeting (New York, NY), peer-reviewed. Presented: The NGO's Dilemma: How to Influence Firms to Remove a Potentially Hazardous Substance.

2010 POMS New Product Development, Innovation, & Sustainability Workshop (Bloomington, IN), peer-reviewed. Presented: Replacement Decisions for Potentially Hazardous Substances.

2009 MSOM Annual Meeting (Cambridge, MA), peer-reviewed. Presented: Replacement Decisions for Potentially Hazardous Substances.

### **PROFESSIONAL ACTIVITIES/SERVICE**

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Editor: Associate Editor at Decision Sciences (2018 – present); Senior Editor at POM (2021 – present)<sup>2</sup>

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<sup>1</sup> Coauthor and advisee presentations not listed. Only presentations at peer-reviewed conferences are listed; I also regularly present at the INFORMS and POMS annual conferences.

<sup>2</sup> I also regularly review for top journals (e.g., *Management Science*, *M&SOM*, and *POM*), conferences (e.g., MSOM SIGs), and competitions (e.g., MSOM and POMS student paper competitions).



#### Organizer:

Conferences: 2017 Early-Career Sustainable OM Workshop (with Vishal Agrawal, Georgetown Univ.), 2016 MSOM Sustainable OM SIG (with Yanchong Zheng, MIT), 2016 POMS College of Sustainable Operations Mini-conference (with Michael Lim, Univ. of Illinois), SCRC Doing Good with OM/OR Workshop (with Eda Kemahlioglu-Ziya, 2021 – 2022)

Competitions: 2017 POMS Sustainable Ops Student Paper Competition (with Yannis Bellos, George Mason Univ.), 2019 POMS Wickham Skinner Teaching Award Committee (member)

Track Chair: POMS Supply Chain Management 2014; POMS Socially Responsible Operations 2018 with Saed Alizamir, Yale and 2020 - 2021 with León Valdés, Univ. of Pittsburgh<sup>3</sup>

#### Affiliations:

Member: Institute for Operations Research & Management Science (INFORMS), Manufacturing & Service Operations Management Society (MSOM), Production and Operations Management Society (POMS)

Editorial Review Board: POMS (2015 – 2020)

Leadership Positions: VP of Membership, POMS College of Sustainable Ops (2014 – 2016); Secretary/Treasurer, MSOM Board (2021 - 2022), Steering Committee Early Career Sustainable OM Workshop (2022 - 2023)

#### Advisor/Supervisor:

León Valdés, Sloan School of Management, MIT (Co-advised with Yanchong Zheng). Graduation: August 2017 (Katz School of Business, University of Pittsburgh).

Pinar Yalçın (Masters Student), Industrial Engineering, Middle East Technical University (Co-supervised with Özgen Karaer). Graduation: June 2018.

Vincent Yu (Postdoctoral Research Scholar), Poole College of Management, North Carolina State University. Sept. 2021 – August 2023.

#### School Committees:

Darden: Research and Course Development (2014 – 2018), Canvas Working Group (Chair 2015), MBA Advisory Committee (2017 – 2018)

NC State: Administration Board of the Graduate School (2021 – present), University Research Committee (2022 – 2023)

## **MEDIA COVERAGE**

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ABC 11 News (Raleigh-Durham). May 2, 2022. “Supply chain expert: Rising diesel prices hitting truck drivers hard now, consumers this summer.”

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<sup>3</sup> I also regularly organize sessions at the INFORMS and POMS annual conferences.

ABC 11 News (Raleigh-Durham). Mar. 7, 2022. “Triangle small businesses feel effects of Russia's invasion of Ukraine.”

Bloomberg.com. Jan. 4, 2022. “Drivers snowed-in all night as crews work to reopen I-95 near DC.”

ABC 11 News (Raleigh-Durham). Oct. 14, 2021. “Prices of fuel, food increase as consumers bear the brunt of pandemic problems.”

Fort Bend Star (Houston). June 28, 2021. “Supply chain issues causing headaches in Fort Bend.”

ABC 11 News (Raleigh-Durham). May 28, 2021. “Shortage of shipping pallets could be the next big supply chain issue.”

WRAL-TV (NBC Raleigh). May 22, 2021. “Rising price of lumber impacting almost everything you buy.”

NPR (Charlotte) – Charlotte Talks with Mike Collins. May 20, 2021. “First It Was Toilet Paper, Then It Was Gas. What Causes Us to Panic Buy?”

Spectrum News 1 (Charlotte). May 11, 2021. “Higher prices, panic buying: What the Colonial Pipeline hack means for North Carolina.”

ABC 11.com (Raleigh-Durham). May 11, 2021. “State of emergency declared in NC to help prevent fuel shortage following Colonial Pipeline hack.”

ABC 11 News (Raleigh-Durham). May 6, 2021. “Here's why there could be gas shortages this summer.”

ABC 11 News (Raleigh-Durham). May 4, 2021. “Skyrocketing lumber prices, aluminum shortages impacting Habitat for Humanity affordable housing project.”

ABC Good Morning America. December 15, 2020. “Winter storm threatens vaccine and holiday shipping.”

ABC 11 News (Raleigh-Durham). December 15, 2020. “Christmas deliveries could be delayed, NC State supply chain expert says.”

ABC 11 News (Raleigh-Durham). October 22, 2020. “Shipping expert: Start online holiday shopping now.”

NC State University. April 6, 2020. “COVID-19 highlights the importance of agility for supply chains.”

WUNC North Carolina Public Radio (interview). September 18, 2019. “United Auto Workers strike against GM”.

Supply Chain Quarterly. July 26, 2019. “Study: Investing in supply chain visibility builds trust.”

NextBillion.net. February 5, 2019. “After Rana Plaza – Do consumers care about supply chain transparency? Our research shows they do.”

Environmental Leader. December 20, 2018. “Study shows consumers willing to pay premium for supply chain transparency.”

The Huffington Post. March 9, 2016. “The North Face just destroyed Trump’s simplistic opinion on jobs.”

Washington Post (Case in Point). January 24, 2014. “In reusable water bottle industry, dealing with a possible toxic problem.”

Washington Post (Case in Point). January 19, 2013. “As NoBull Burger shows, determining capacity needs is a key for growth.”

## **NON-ACADEMIC EMPLOYMENT**

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RadioShack Corporation Operations Strategy & Planning Manager/MBA Intern	Fort Worth, TX 2005 – 2006, Summer 2004
Dell Incorporated MBA Operations Intern	Austin, TX Summer 2003
PricewaterhouseCoopers Supply Chain Management Consultant	Atlanta, GA 1999 – 2002
DCB & Company (Distribution design firm) Cooperative Student	Atlanta, GA 1996 – 1998
Prestolite Wire (Automotive wire manufacturer) Cooperative Student	Tifton, GA 1995 – 1996