Phone: 917-658-9085

44 W 4th St., Ste. 10-82 New York, NY 10012 E-mail: ccuny@stern.nyu.edu

ACADEMIC EMPLOYMENT & APPOINTMENT

| New York University Stern School of Business | |
|---|--------------|
| Associate Professor of Accounting with Tenure | 2023–Present |
| Associate Professor of Accounting | 2020-2023 |
| Assistant Professor of Accounting | 2013-2020 |
| Municipal Securities Rulemaking Board | |
| Visiting Scholar | 2019-2020 |

NON-ACADEMIC EMPLOYMENT & CERTIFICATION

| Morgan Stanley & Co. Equity Research Senior Associate – Property/Casualty Insurance | 2006-2008 |
|--|-----------|
| Pricewaterhouse Coopers, LLP Senior Audit Associate - Banking & Capital Markets | 2003-2006 |
| Certified Public Accountant, State of New York | 2005 |

EDUCATION

| The University of Chicago Booth School of Business | |
|--|------|
| $Doctor\ of\ Philosophy\ -\ Accounting$ | 2013 |
| Master of Business Administration | 2012 |
| W.L.D H | |
| Wake Forest University | |
| $Master\ of\ Science\ -\ Accountancy$ | 2003 |
| Bachelor of Science – Analytical Finance | 2003 |

RESEARCH INTERESTS

I study the political, economic, and competitive forces that shape the public disclosure decisions of US local governments and corporations. I also examine how disclosure affects trading costs in the municipal and corporate bond markets.

Publications and Accepted Papers

"Limits to Political Capture: Evidence from Patent Grants, Disclosures, and Litigation" (with Mihir Mehta and Wanli Zhao) Accepted, Journal of Accounting Research

"The Moderating Role of Disclosure Quality" (with Svenja Dube) Accepted, Contemporary Accounting Research

"Disclosure and Competition for Capital"

(with Stephanie Cheng and Hao Xue)

Management Science [2023; 69(7), pp.4312-4330]

"From Implicit to Explicit: The Impact of Disclosure Requirements on Hidden Transaction Costs"

(with Omri Even-Tov and Edward Watts)

Journal of Accounting Research [2021; 59(1), pp. 215-242]

"Information Imprecision"

(with Ryan Ball)

The Accounting Review [2021; 96(2), pp. 33–53]

"Politically Connected Governments"

(with Jungbae Kim and Mihir Mehta)

Journal of Accounting Research [2020; 58(4), pp. 915–952]

"When Knowledge is Power: Evidence from the Municipal Bond Market"

Journal of Accounting and Economics [2018; 65(1), pp. 109–128]

"Competition and Voluntary Disclosure: Evidence from Deregulation in the Banking Industry"

(with Jeffrey Burks, Joseph Gerakos, and João Granja) Review of Accounting Studies [2018; 23(4), pp. 1471–1511]

"Voluntary Disclosure Incentives: Evidence from the Municipal Bond Market"

Journal of Accounting and Economics [2016; 62(1), pp. 87–102]

WORKING PAPERS

"Political Costs and Strategic Corporate Communication" (with Mihir Mehta and Jungbae Kim)

"The Information Content of Municipal Financial Statements: Large-sample Evidence" (with Ken Li, Anya Nakhmurina, and Edward Watts)

"Information Processing Costs in Donor Decision-Making: Evidence from the Field" (with Amanda Beck and Sara Malik)

Research Presentations

| London School of Economics | 2025 (Scheduled) |
|---|------------------|
| Georgia State University | 2025 (Scheduled) |
| Notre Dame Accounting Research Conference | 2023 |
| University of Texas at Arlington, College of Business | 2023 |
| Yale Municipal Research Conference | 2023 |
| Bocconi University | 2023 |
| University of Miami "Winter Warm-up" Accounting Conference | 2022 |
| Washington University at St. Louis, Olin School of Business | 2022 |
| Columbia Burton Accounting Conference | 2022 |
| Northwestern University, Kellogg School of Business | 2022 |
| University of Colorado Boulder, Leeds School of Business | 2022 |
| Dartmouth College, Tuck School of Business | 2022 |

| Rice University, Jone's School of Business 2022 Brookings Institution, Municipal Finance Conference 2022 Laskayne and Fox Accounting Conference 2021 Laskayne and Fox Accounting Conference 2021 The Ohio State University, Fisher College of Business 2021 The Ohio State University, Fisher College of Business 2021 The Ohio State University, Fisher College of Business 2021 Vale Summer Accounting Conference 2020 Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nouprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Sendal College of Business 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 Chicago Booth Alumni Insight 2018 AAA Financial Accounting and Reporting Sectio | University of Georgia, Terry College of Business | 2022 |
|--|---|------|
| Brookings Institution, Municipal Finance Conference 2022 Haskayne and Fox Accounting Conference 2021 London Business School 2021 University of Utah, David Eccles School of Business 2021 The Ohio State University, Fisher College of Business 2021 University of Chicago, Booth School of Business 2021 Vale Summer Accounting Conference 2020 Harvard Business School 2020 Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Greschool of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Craduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, School of Business 2018 The George Washington University, School of Business 2018 Colorado Summer Accounting Research Conference 2018 Colicago Booth Alumni Insight 2018 AAA Financial Accounting and Reporting Section Meeting <t< td=""><td></td><td></td></t<> | | |
| Haskayne and Fox Accounting Conference 2022 London Business School 2021 London Business School 2021 London Business School 2021 The Ohio State University, Fisher College of Business 2021 The Ohio State University, Fisher College of Business 2021 Vale Summer Accounting Conference 2020 University of Chicago, Booth School of Business 2020 Utah Winter Accounting Conference 2020 Utah Winter Accounting Conference 2020 Utah Winter Accounting Conference 2019 NYU Accounting Summer Camp 2019 NYU Accounting Summer Camp 2019 NYU Accounting Summer Camp 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Colorado Summer Accounting Research Conference 2018 Colorado Summer Accounting Research Conference 2018 AAA Government and Nonprofit Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting Research Conference 2013 AAA Financial Accounting Resear | * ' | 2022 |
| London Business School 2021 University of Utah, David Eccles School of Business 2021 University of Chicago, Booth School of Business 2021 University of Chicago, Booth School of Business 2021 University of Chicago, Booth School of Business 2022 Utah Summer Accounting Conference 2020 Utah Winter Accounting Conference 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 Rutgers Business School 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, School of Business 2018 NSEAD 2018 Colorado Summer Accounting Research Conference 2018 Colorado Summer Accounting Research Conference 2018 AAA Government and Nonprofit Section Meeting 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Government and Reporting Section Meeting 2018 NYU Accounting Summer Camp 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting Research Conference 2017 AAAA Financial Accounting Research Conference 2018 AAAA Fin | | 2022 |
| The Ohio State University, Fisher College of Business 2021 University of Chicago, Booth School of Business 2021 Yale Summer Accounting Conference 2020 Harvard Business School 2020 Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, School of Business 2018 Pennsylvania State University, School of Business 2018 The George Washington University, School of Business 2018 NSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Troonto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting Accounting Section Meeting 2013 Northwestern University, School of Management 2017 Dartmouth Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 Northwestern University, School of Business 2013 Northwestern University, School of Business 2013 Northwestern University, Kellogg School of Business 2013 Northwestern University, School of Business 2013 Columbia University, Graduate School of Business 2013 Columbia University, Graduate School of Business 2013 Columbia University, Graduate School of | · | 2021 |
| The Ohio State University, Fisher College of Business 2021 University of Chicago, Booth School of Business 2021 Yale Summer Accounting Conference 2020 Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 University of Pennsylvania, The Wharton School 2018 University of Pennsylvania State University, School of Business 2018 University of Pennsylvania State University, School of Business 2018 InsEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting Summer Summer Camp 2018 Forokings Ins | University of Utah, David Eccles School of Business | 2021 |
| University of Chicago, Booth School of Business 2021 Yale Summer Accounting Conference 2020 Harvard Business School 2020 Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Sehool of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 NYU Accounting Summer Camp 2017 Dartmouth Accounting Research Conference 2017 University of Toronto, Rotman | · · · · · · · · · · · · · · · · · · · | 2021 |
| Harvard Business School 2020 Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 University and State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 The George Washington University, School of Business 2018 Colorado Summer Accounting Research Conference 2018 Colorado Summer Accounting Research Conference 2018 Colorado Summer Camp 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAF Financial Accounting and Reporting Section Meeting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 University of Toronto, Rotman School of Management 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 Washington University at St. Louis, Olin School of Business 2013 Washington University at St. Louis, Olin School of Business 2013 Washington University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 NYU, Stern School of Business 2013 Marvard Business School 2013 Emory University, Graduate School of Business 2013 | University of Chicago, Booth School of Business | 2021 |
| Utah Winter Accounting Conference 2020 CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 Conference on Financial Economics and Accounting 2017 Prookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 NAA Financial Accounting and Reporting Section Meeting 2013 | Yale Summer Accounting Conference | 2020 |
| CUNY, Baruch College 2019 NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 University of Toronto, Rotman School of Management 2017 University of Toronto, Rotman School of Management 2017 Vul Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial | Harvard Business School | 2020 |
| NYU Accounting Summer Camp 2019 Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 Rensylvania State University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Valve Accounting Research Conference 2017 NYU Accounting Research Conference 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting and Report | Utah Winter Accounting Conference | 2020 |
| Temple University Fox School of Business 2019 Rutgers Business School 2019 AAA Government and Nonprofit Section Meeting 2018 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 Brothing Institution, Municipal Finance Conference 2017 Vulversity of Toronto, Rotman School of Management 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 | CUNY, Baruch College | 2019 |
| Rutgers Business School AAA Government and Nonprofit Section Meeting Stanford University, Graduate School of Business 2018 Stanford University, Graduate School of Business 2018 Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 3017 AAA Financial Accounting and Reporting Section Meeting 2018 AAA Financial Accounting Research Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 NYU, Stern School of Business 2013 NYU, Stern School of Business 2013 Accounting University, Graduate School of Business 2013 The George Washington University, School of Business 2013 The George Washington University of Washington at St. Louis Popuch Accounting Conference at University of Washington at St. Louis Popuch Accounting Research Conference 2024 Four Schools Accounting Res | NYU Accounting Summer Camp | 2019 |
| AAA Government and Nonprofit Section Meeting 2019 Stanford University, Graduate School of Business 2018 University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 University of Toronto, Rotman School of Management 2017 University of Toronto, Rotman School of Management 2017 NYU Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Washington University, Kellogg School of Management 2013 | Temple University Fox School of Business | 2019 |
| Stanford University, Graduate School of Business University of Pennsylvania, The Wharton School 2018 Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 University of Toronto, Rotman School of Management 2017 NYU Accounting Research Conference 2017 NYU Accounting Rummer Camp 2016 Conference on Financial Economics and Accounting 2017 AAA Financial Accounting and Reporting Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2018 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AIIT, Sloan School of Business 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 Harvard Business School 2013 Harvard Business School 2013 Emory University, Graduate School of Business 2013 The George Washington University, School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Graduate School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University of Machington at St. Louis PhD Rookie Recruiting and Research Camp 2014 CONFERENCE DISCUSSIONS Dopuch Accounting Research Conference 2024 Four Schools Accounting Research Conference 2024 London Business Schoo | Rutgers Business School | 2019 |
| University of Pennsylvania, The Wharton School Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2017 Dartmouth Accounting Research Conference 2017 University of Toronto, Rotman School of Management 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 Arvard Business School 2013 Columbia University, Graduate School of Business 2013 The George Washington University, School of Business 2013 The George Washington University, School of Business 2013 Columbia University, Graduate School of Business 2013 Columbia University of Mashington at St. Louis CONFERENCE DISCUSSIONS CONFERENCE DISCUSSIONS | AAA Government and Nonprofit Section Meeting | 2019 |
| Pennsylvania State University, Smeal College of Business 2018 The George Washington University, School of Business 2018 INSEAD 2018 Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight 2018 AAA Government and Nonprofit Section Meeting 2018 NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Northwestern University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 Aravard Business School 2013 Columbia University, Graduate School of Business 2013 Emory University, Graduate School of Business 2013 Columbia University, Graduate School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis 2024 Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | Stanford University, Graduate School of Business | 2018 |
| The George Washington University, School of Business INSEAD Colorado Summer Accounting Research Conference 2018 Chicago Booth Alumni Insight AAA Government and Nonprofit Section Meeting NYU Accounting Summer Camp AAA Financial Accounting and Reporting Section Meeting Conference on Financial Economics and Accounting Conference on Financial Economics and Accounting Prookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 NTI, Sloan School of Business 2013 NTV, Stern School of Business 2013 NTV, Stern School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 Columbia University, Goizueta School of Business 2013 Columbia University, Goizueta School of Business 2013 Conference Discussions CONFERENCE Discussions Dopuch Accounting Research Conference 2024 Four Schools Accounting Research Conference 2024 Four Schools Accounting Research Conference 2024 London Business School Accounting Symposium 2022 London Business School Accounting Symposium | University of Pennsylvania, The Wharton School | 2018 |
| INSEAD | Pennsylvania State University, Smeal College of Business | 2018 |
| Colorado Summer Accounting Research Conference Chicago Booth Alumni Insight AAA Government and Nonprofit Section Meeting AAA Government and Nonprofit Section Meeting NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting Conference on Financial Economics and Accounting Brookings Institution, Municipal Finance Conference 2017 Conference on Financial Economics and Accounting Accounting Summer Camp 2016 Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 Aravard Business School 2013 Emory University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 Emory University, Goizueta School of Business 2013 Columbia University, Goizueta School of Business 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Pour Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | The George Washington University, School of Business | 2018 |
| Chicago Booth Alumni Insight AAA Government and Nonprofit Section Meeting NYU Accounting Summer Camp 2018 AAA Financial Accounting and Reporting Section Meeting 2018 Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Rarvard Business School 2013 Emory University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2014 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Province Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | INSEAD | 2018 |
| AAA Government and Nonprofit Section Meeting NYU Accounting Summer Camp AAA Financial Accounting and Reporting Section Meeting Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 MYU, Stern School of Business 2013 Arvurd Business School Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 Conference Discussions CONFERENCE Discussions Dopuch Accounting Conference at University of Washington at St. Louis 2024 Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2018 | Colorado Summer Accounting Research Conference | 2018 |
| NYU Accounting Summer Camp AAA Financial Accounting and Reporting Section Meeting Conference on Financial Economics and Accounting Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Graduate School of Business 2013 Columbia University, Goizueta School of Business 2013 London Business School 2013 CONFERENCE DISCUSSIONS CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | Chicago Booth Alumni Insight | 2018 |
| AAA Financial Accounting and Reporting Section Meeting Conference on Financial Economics and Accounting 2017 Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Washington University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 NYU, Stern School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Graduate School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | AAA Government and Nonprofit Section Meeting | 2018 |
| Conference on Financial Economics and Accounting Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MYU, Stern School of Business 2013 Harvard Business School 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | NYU Accounting Summer Camp | 2018 |
| Brookings Institution, Municipal Finance Conference 2017 University of Toronto, Rotman School of Management 2017 Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp 2016 Conference on Financial Economics and Accounting 2013 AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 MYU, Stern School of Business 2013 Harvard Business School 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis 2024 Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | AAA Financial Accounting and Reporting Section Meeting | 2018 |
| University of Toronto, Rotman School of Management Dartmouth Accounting Research Conference 2017 NYU Accounting Summer Camp Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business Northwestern University, Kellogg School of Management University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 NYU, Stern School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Graduate School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis 2024 Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2017 | Conference on Financial Economics and Accounting | 2017 |
| Dartmouth Accounting Research Conference NYU Accounting Summer Camp Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business Northwestern University, Kellogg School of Management University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 NYU, Stern School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 London Business School CONFERENCE DISCUSSIONS CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis 2024 Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2017 | Brookings Institution, Municipal Finance Conference | 2017 |
| NYU Accounting Summer Camp Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business Northwestern University, Kellogg School of Management University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Harvard Business School Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 Accounting PhD Rookie Recruiting and Research Camp CONFERENCE DISCUSSIONS Conference Dopuch Accounting Conference at University of Washington at St. Louis Pour Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium | University of Toronto, Rotman School of Management | 2017 |
| Conference on Financial Economics and Accounting AAA Financial Accounting and Reporting Section Meeting 2013 Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Harvard Business School 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | Dartmouth Accounting Research Conference | 2017 |
| AAA Financial Accounting and Reporting Section Meeting Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Harvard Business School 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | NYU Accounting Summer Camp | 2016 |
| Washington University at St. Louis, Olin School of Business 2013 Northwestern University, Kellogg School of Management 2013 University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Columbia University, Graduate School of Business 2013 Emory University, Graduate School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | Conference on Financial Economics and Accounting | 2013 |
| Northwestern University, Kellogg School of Management University of Michigan, Ross School of Business 2013 MIT, Sloan School of Business 2013 NYU, Stern School of Business 2013 Harvard Business School 2013 Columbia University, Graduate School of Business 2013 Emory University, Goizueta School of Business 2013 The George Washington University, School of Business 2013 London Business School 2013 Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis 2024 Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | AAA Financial Accounting and Reporting Section Meeting | 2013 |
| University of Michigan, Ross School of Business MIT, Sloan School of Business NYU, Stern School of Business 2013 Harvard Business School Columbia University, Graduate School of Business Emory University, Goizueta School of Business 2013 The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium | Washington University at St. Louis, Olin School of Business | 2013 |
| MIT, Sloan School of Business NYU, Stern School of Business Harvard Business School Columbia University, Graduate School of Business Emory University, Goizueta School of Business 2013 The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium | Northwestern University, Kellogg School of Management | 2013 |
| NYÚ, Stern School of Business Harvard Business School Columbia University, Graduate School of Business Emory University, Goizueta School of Business Emory University, Goizueta School of Business 2013 The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | University of Michigan, Ross School of Business | 2013 |
| Harvard Business School Columbia University, Graduate School of Business Emory University, Goizueta School of Business The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2013 | MIT, Sloan School of Business | 2013 |
| Columbia University, Graduate School of Business Emory University, Goizueta School of Business 2013 The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | NYU, Stern School of Business | 2013 |
| Emory University, Goizueta School of Business The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2012 | Harvard Business School | 2013 |
| The George Washington University, School of Business London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2013 2013 2014 2015 2016 2017 2018 2019 2019 2019 2019 2021 | Columbia University, Graduate School of Business | 2013 |
| London Business School Accounting PhD Rookie Recruiting and Research Camp 2012 CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference London Business School Accounting Symposium 2013 2014 2015 2016 2017 2018 2019 2019 2019 2019 2019 2019 2019 2019 | Emory University, Goizueta School of Business | |
| Accounting PhD Rookie Recruiting and Research Camp CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference London Business School Accounting Symposium 2012 | | |
| CONFERENCE DISCUSSIONS Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference London Business School Accounting Symposium 2022 | | |
| Dopuch Accounting Conference at University of Washington at St. Louis Four Schools Accounting Research Conference Brookings Institution Municipal Finance Conference London Business School Accounting Symposium 2022 | Accounting PhD Rookie Recruiting and Research Camp | 2012 |
| Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | Conference Discussions | |
| Four Schools Accounting Research Conference 2024 Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | Dopuch Accounting Conference at University of Washington at St. Louis | 2024 |
| Brookings Institution Municipal Finance Conference 2023 London Business School Accounting Symposium 2022 | | |
| London Business School Accounting Symposium 2022 | | |
| ~ · · | - | |
| | ~ · - | |

| CUHK Accounting Research Conference | 2022 |
|--|------|
| AAA Financial Accounting and Reporting Section | 2022 |
| NSE-NYU Conference | 2021 |
| Utah Winter Accounting Conference | 2018 |
| Dartmouth Accounting Research Conference | 2018 |
| AAA Financial Accounting and Reporting Section | 2018 |
| American Accounting Association Annual Meeting | 2017 |
| Midwest Finance Association Conference | 2017 |
| Dartmouth Accounting Research Conference | 2016 |
| AAA Financial Accounting and Reporting Section | 2014 |
| Dartmouth Accounting Research Conference | 2013 |
| American Accounting Association Annual Meeting | 2011 |
| | |

TEACHING EXPERIENCE

| Financial Statement Analysis (Undergraduate) | 2013–Present |
|--|--------------|
| Average rating 4.8/5.0 | |
| | |

Goldman Sachs Black in Business Program (Executive Education)

Mastering Your Numbers 2024—Present

Awards

| The Accounting Review Outstanding Reviewer Award | 2024 |
|---|------|
| NYU Stern Distinguished Teaching Award | 2022 |
| AAA FARS Outstanding Discussion Award | 2022 |
| Journal of Accounting Research Referee of the Year | 2019 |
| Brookings Institution Municipal Finance Conference Best Paper | 2017 |

ACADEMIC SERVICE

EDITORIAL POSITIONS:

The Accounting Review Editorial Board

AD HOC REVIEWER:

Journal of Accounting and Economics; Journal of Accounting Research; The Accounting Review; Review of Financial Studies; Contemporary Accounting Research; European Accounting Review; Management Science; Journal of Accounting and Public Policy; Journal of Public Budgeting and Finance; Review of Accounting Studies; Journal of Law Finance and Accounting Conference; AAA FARS Midyear Meeting; AAA GNP Midyear Meeting; Hawaii Accounting Research Conference; Accounting, Organizations, and Society

EXTERNAL CONFERENCE COORDINATION:

AAA FARS National Meeting Coordinator 2023-Present Brookings Institution Municipal Finance Conference Advisory Committee 2022-Present

DISSERTATION COMMITTEES:

| Ulrich Atz (TBD) | 2024 |
|--|------|
| Stephanie Dong (University of Rochester) | 2023 |
| Tony Cho (HKUST) | 2022 |
| Svenja Dube (Fordham) | 2019 |
| Stephanie Cheng, external (Tulane) | 2018 |
| Igor Kadach (IESE) | 2016 |

NYU:

| Faculty recruiting chair | 2025, 2024, 2023, 2019 |
|--------------------------------------|------------------------|
| Faculty recruiting committee member | 2022, 2020, 2014 |
| Summer Camp coordinator | 2018 |
| New faculty orientation panel member | 2017 |
| Accounting workshop coordinator | 2014 |

INVITED CONFERENCE PARTICIPATION

JAR Conference (2024, 2023, 2022, 2021, 2020, 2019, 2018, 2016, 2014, 2013, 2012, 2011, 2010, 2009); JAE Conference (2024, 2022, 2021, 2012); JAR Registered Reports Conference (2021); Utah Winter Accounting Conference (2024, 2023, 2022, 2020, 2019, 2018); Colorado Summer Accounting Research Conference (2024, 2023, 2022, 2019, 2018, 2014); Stanford Summer Camp (2021, 2018); LBS Symposium (2024, 2023, 2022); Yale Summer Accounting Conference (2024, 2020); RAST Conference (2021, 2020); Miami Winter Warm-Up (2023, 2022, 2021); NYU Stern Four School Conference (2024, 2023, 2022); NYU Accounting Summer Camp (2019, 2018, 2017, 2016, 2014, 2013); University of Minnesota Empirical Conference (2019, 2017, 2016); Dartmouth Accounting Research Conference (2018, 2017, 2016, 2015, 2014, 2013); Penn State Accounting Research Conference (2018, 2017); University of Illinois at Chicago Accounting Conference (2016); Journal of Law, Finance, and Accounting Conference (2015, 2014); PCAOB/JAR Conference (2015); Columbia Burton Workshop (2022, 2014); George Washington University Cherry Blossom Conference (2022, 2014); Texas Spring Conference (2011)