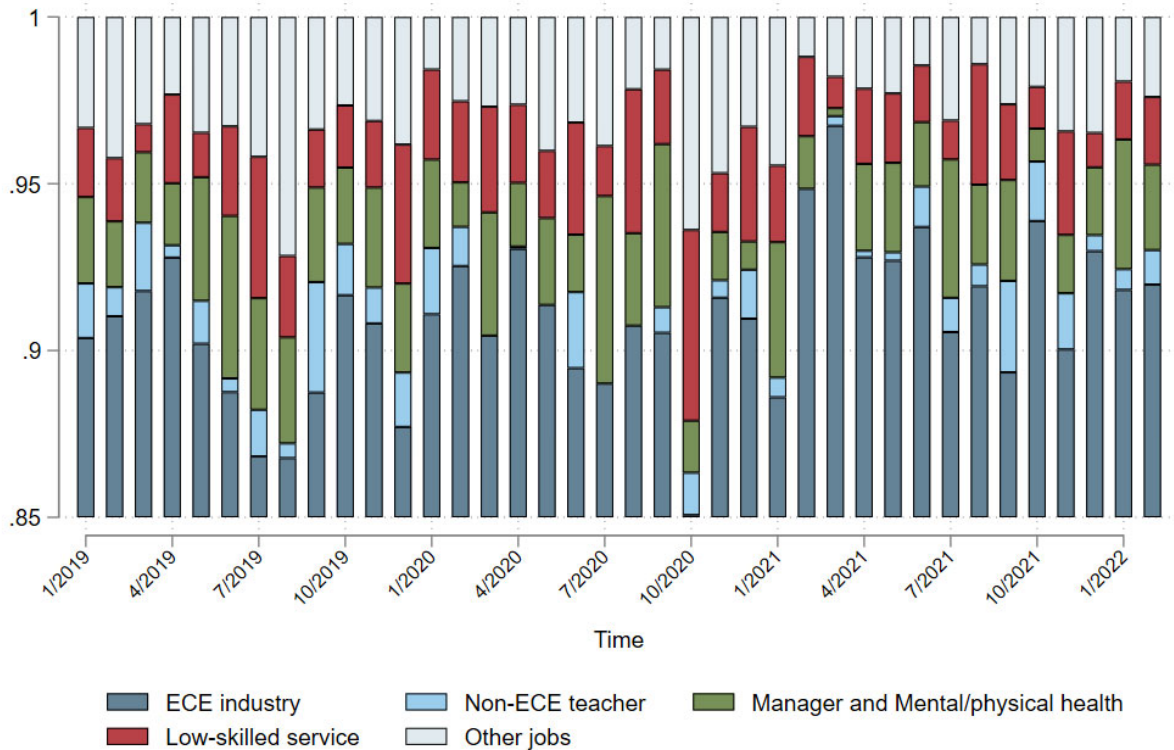


Technical Appendix

Economy’s Essential Early Care and Education Workforce Struggles to Recover

Anna Crockett and Xiaohan Zhang

Appendix Figure 1: Monthly turnover by grouped industries



NOTE: The Appendix Figure 1 summarizes the industry status of last month’s center-based ECE teachers. Each bar in the figure illustrates their industry distribution in the current month, conditional on being employed.

SOURCES: IPUMS-CPS; authors’ calculations.

Definition of grouped industries

Mental or Physical Health/Management/ Specialized teaching	Industry code
Chief executives and legislators/public	10
General and Operations Managers	20
Managers in Marketing, Advertising, and	30
Financial Managers	120
Human Resources Managers	130

Farmers, Ranchers, and Other Agricultur	205
Constructions Managers	220
Education Administrators	230
Food Service and Lodging Managers	310
Gaming Managers	330
Medical and Health Services Managers	350
Property, Real Estate, and Community As	410
Social and Community Service Managers	420
Managers, nec (including Postmasters)	430
Agents and Business Managers of Artists	500
Claims Adjusters, Appraisers, Examiners	540
Compliance Officers, Except Agriculture	560
Human Resources, Training, and Labor Re	620
Logisticians	700
Management Analysts	710
Other Business Operations and Managemen	730
Accountants and Auditors	800
Financial Specialists, nec	950
Computer Scientists and Systems Analyst	1000
Computer Support Specialists	1050
Actuaries	1200
Civil Engineers	1360
Industrial Engineers, including Health	1430
Engineers, nec	1530
Engineering Technicians, Except Drafter	1550
Surveying and Mapping Technicians	1560
Agricultural and Food Scientists	1600
Physical Scientists, nec	1760
Psychologists	1820
Social Scientists, nec	1840
Life, Physical, and Social Science Tech	1960
Counselors	2000
Social Workers	2010
Community and Social Service Specialist	2020
Clergy	2040
Religious Workers, nec	2060
Lawyers, and judges, magistrates, and o	2100
Artists and Related Workers	2600
Designers	2630
Athletes, Coaches, Umpires, and Related	2720
Musicians, Singers, and Related Workers	2750
Editors, News Analysts, Reporters, and	2810
Media and Communication Workers, nec	2860
Photographers	2910

Physicians and Surgeons	3060
Registered Nurses	3130
Occupational Therapists	3150
Respiratory Therapists	3220
Speech Language Pathologists	3230
Therapists, nec	3240
Health Diagnosing and Treating Practiti	3260
Clinical Laboratory Technologists and T	3300
Diagnostic Related Technologists and Te	3320
Health Diagnosing and Treating Practiti	3410
Licensed Practical and Licensed Vocatio	3500
Medical Records and Health Information	3510
Health Technologists and Technicians, n	3530
Nursing, Psychiatric, and Home Health A	3600
Physical Therapist Assistants and Aides	3620
Dental Assistants	3640
Medical Assistants and Other Healthcare	3650
Personal Care Aides	4610
Recreation and Fitness Workers	4620
Personal Care and Service Workers, All	4650
Low-skilled Service	
Chefs and Cooks	4000
First-Line Supervisors of Food Preparat	4010
Food Preparation Workers	4030
Bartenders	4040
Combined Food Preparation and Serving W	4050
Counter Attendant, Cafeteria, Food Conc	4060
Waiters and Waitresses	4110
Food Servers, Nonrestaurant	4120
Food preparation and serving related wo	4130
Dishwashers	4140
Host and Hostesses, Restaurant, Lounge,	4150
Janitors and Building Cleaners	4220
Maids and Housekeeping Cleaners	4230
Grounds Maintenance Workers	4250
Nonfarm Animal Caretakers	4350
Ushers, Lobby Attendants, and Ticket Ta	4420
Entertainment Attendants and Related Wo	4430
Hairdressers, Hairstylists, and Cosmeto	4510
Baggage Porters, Bellhops, and Conciern	4530
Tour and Travel Guides	4540
First-Line Supervisors of Sales Workers	4700
Cashiers	4720
Retail Salespersons	4760

Advertising Sales Agents	4800
Insurance Sales Agents	4810
Securities, Commodities, and Financial	4820
Sales Representatives, Services, All Ot	4840
Sales Representatives, Wholesale and Ma	4850
Models, Demonstrators, and Product Prom	4900
Real Estate Brokers and Sales Agents	4920
Telemarketers	4940
Sales and Related Workers, All Other	4965
Customer Service Representatives	5240
Hotel, Motel, and Resort Desk Clerks	5300
Receptionists and Information Clerks	5400
Couriers and Messengers	5510
Dispatchers	5520
Postal Service Mail Carriers	5550
Postal Service Mail Sorters, Processors	5560
Packaging and Filling Machine Operators	8800
Other production workers including semi	8965
Supervisors of Transportation and Mater	9000
Flight Attendants and Transportation Wo	9050
Bus and Ambulance Drivers and Attendant	9100
Driver/Sales Workers and Truck Drivers	9130
Taxi Drivers and Chauffeurs	9140
Industrial Truck and Tractor Operators	9600
Cleaners of Vehicles and Equipment	9610
Laborers and Freight, Stock, and Materi	9620
Packers and Packagers, Hand	9640
Other	
Sheriffs, Bailiffs, Correctional Office	3800
Security Guards and Gaming Surveillance	3930
Law enforcement workers, nec	3950
Residential Advisors	4640
First-Line Supervisors of Office and Ad	5000
Bill and Account Collectors	5100
Billing and Posting Clerks	5110
Bookkeeping, Accounting, and Auditing C	5120
Bank Tellers	5160
Financial Clerks, nec	5165
Eligibility Interviewers, Government Pr	5250
File Clerks	5260
Interviewers, Except Eligibility and Lo	5310
Loan Interviewers and Clerks	5330
Human Resources Assistants, Except Payr	5360
Reservation and Transportation Ticket A	5410

Information and Record Clerks, All Othe	5420
Production, Planning, and Expediting Cl	5600
Shipping, Receiving, and Traffic Clerks	5610
Stock Clerks and Order Fillers	5620
Weighers, Measurers, Checkers, and Samp	5630
Secretaries and Administrative Assistan	5700
Word Processors and Typists	5820
Office Clerks, General	5860
Office and administrative support worke	5940
Agricultural workers, nec	6050
Carpenters	6230
Construction Laborers	6260
Electricians	6355
Painters, Construction and Maintenance	6420
Automotive Service Technicians and Mech	7200
Maintenance and Repair Workers, General	7340
Electrical Power-Line Installers and Re	7410
First-Line Supervisors of Production an	7700
Assemblers and Fabricators, nec	7750
Bakers	7800
Machinists	8030
Sewing Machine Operators	8320
Textile Knitting and Weaving Machine Se	8410
Cabinetmakers and Bench Carpenters	8500
Woodworking Machine Setters, Operators,	8540
Chemical Processing Machine Setters, Op	8640
Cutting Workers	8710
Inspectors, Testers, Sorters, Samplers,	8740
Jewelers and Precious Stone and Metal W	8750