Supplemental Appendix

## Crosswalk

To increase the sample size of individuals used in this analysis, the identity-to-GSS crosswalk was revised to encompass more identities. After using the crosswalk from Freeland and Hoey’s (2018) analysis, 136 occupational codes did not have identity match. For the 1996 subsection of the analysis, this resulted in 912 missing cases.

To match occupational codes with identities from the most recent ACT dictionary, 3 general rules were followed:

1. Assign the missing occupational identity to a general identity under which the specific falls. For example, the occupational codes including specific instances of managers (e.g. 1221 - 1229) were all assigned the identity of manager. Another example is assigning the occupational code 2213, indicating “Agronomists and related professionals” the identity of scientist.
2. Assign the missing occupational identity to an analagous identity. For example, occupational code 4122, indicating Statistical and finance clerks was given the identity of accountant.
3. If neither 1 or 2 was possible for an occupational code, no identity was assigned. The occupations that this applied to were typically very specific and had no reasonable analogy within the 303 occupational identities available.

The newly assigned identities are displayed in table 1, which shows the ISCO-88 code, the identity assigned to it, the number of individuals falling into this category, and the description for the ISCO-88 code used to help assign the identity.

Lastly, the occupations without any identity are listed in table 2. In total, the number of excluded cases based on no identity are now reduced to 53.

New Crosswalk Relationships

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| isco88 | term | identity | num | MAJOR, SUB-MAJOR, MINOR AND UNIT GROUPS |
| 110 | legislator | Legislator | 4 | Legislators and senior officials |
| 1210 | executive | Executive | 19 | Directors and chief executives |
| 1220 | manager | Manager | 28 | Production and operations managers |
| 1221 | manager | Manager | 15 | Production and operations managers in agriculture, hunting, forestry and fishing |
| 1223 | manager | Manager | 18 | Production and operations managers in construction |
| 1225 | manager | Manager | 37 | Production and operations managers in restaurants and hotels |
| 1226 | manager | Manager | 5 | Production and operations managers in transport, storage and communications |
| 1227 | manager | Manager | 35 | Production and operations managers in business services enterprises |
| 1234 | manager | Manager | 3 | Advertising and public relations managers |
| 1235 | manager | Manager | 11 | Supply and distribution managers |
| 1236 | manager | Manager | 3 | Computing services managers |
| 1239 | manager | Manager | 7 | Other specialist managers not elsewhere classified |
| 1313 | manager\_of\_branch\_store | Manager Of Branch Store | 15 | Managers of small enterprises in construction |
| 1319 | manager\_of\_branch\_store | Manager Of Branch Store | 52 | Managers of small enterprises not elsewhere classifie |
| 2110 | physicist | Physicist | 2 | Physicists, chemists and related professionals |
| 2144 | engineer | Engineer | 4 | Electronics and telecommunications engineers |
| 2147 | engineer | Engineer | 1 | Mining engineers, metallurgists and related professionals |
| 2213 | scientist | Scientist | 1 | Agronomists and related professionals |
| 2229 | doctor | Doctor | 2 | Health professionals (except nursing) not elsewhere classified |
| 2310 | professor | Professor | 15 | College, university and higher education teaching professionals |
| 2320 | teacher | Teacher | 36 | Secondary education teaching professionals |
| 2332 | elementary\_school\_teacher | Elementary School Teacher | 13 | Pre-primary education teaching professionals |
| 2340 | teacher | Teacher | 9 | Special education teaching professionals |
| 2412 | professional | Professional | 16 | Personnel and careers professionals |
| 2419 | professional | Professional | 14 | Business professionals not elsewhere classified |
| 2440 | scientist | Scientist | 3 | Social science and related professionals |
| 2444 | interpreter | Interpreter | 2 | Philologists, translators and interpreters |
| 2453 | musician | Musician | 10 | Composers, musicians and singers |
| 3110 | technician | Technician | 3 | Physical and engineering science technicians |
| 3112 | technician | Technician | 3 | Civil engineering technicians |
| 3118 | technician | Technician | 4 | Draughtspersons |
| 3121 | computer\_support\_specialist | Computer Support Specialist | 8 | Computer assistants |
| 3131 | photographer | Photographer | 4 | Photographers and image and sound recording equipment operators |
| 3142 | ship\_captain | Ship Captain | 2 | Ships’ deck officers and pilots |
| 3152 | inspector | Inspector | 21 | Safety, health and quality inspectors |
| 3212 | technician | Technician | 1 | Agronomy and forestry technicians |
| 3226 | physician | Physician | 14 | Physiotherapists and related associate professionals |
| 3229 | physician | Physician | 11 | Health associate professionals (except nursing) not elsewhere classified |
| 3300 | teacher | Teacher | 17 | Teaching associate professionals |
| 3340 | teacher | Teacher | 1 | Other teaching associate professionals |
| 3432 | professional | Professional | 25 | Legal and related business associate professionals |
| 3442 | civil\_servant | Civil Servant | 2 | Government tax and excise officials |
| 3443 | civil\_servant | Civil Servant | 3 | Government social benefits officials |
| 3450 | detective | Detective | 4 | Police inspectors and detectives |
| 4110 | clerk | Clerk | 33 | Secretaries and keyboard-operating clerks |
| 4121 | accountant | Accountant | 52 | Accounting and book-keeping clerks |
| 4122 | accountant | Accountant | 6 | Statistical and finance clerks |
| 4221 | travel\_agent | Travel Agent | 4 | Travel agency and related clerks |
| 5111 | flight\_attendant | Flight Attendant | 3 | Travel attendants and travel stewards |
| 5133 | nursing\_assistant | Nursing Assistant | 9 | Home-based personal care workers |
| 5163 | police\_officer | Police Officer | 6 | Prison guards |
| 5200 | salesperson | Salesperson | 2 | Models, salespersons and demonstrators |
| 6129 | farmer | Farmer | 3 | Animal producers and related workers not elsewhere classified |
| 7141 | construction\_laborer | Construction Laborer | 8 | Painters and related workers |
| 7200 | machine\_operator\_in\_a\_factory | Machine Operator In A Factory | 38 | Metal, machinery and related trades workers |
| 7223 | machine\_operator\_in\_a\_factory | Machine Operator In A Factory | 5 | Machine-tool setters and setter-operators |
| 7232 | auto\_mechanic | Auto Mechanic | 6 | Aircraft engine mechanics and fitters |
| 7324 | craftsman | Craftsman | 5 | Glass, ceramics and related decorative painters |
| 7341 | craftsman | Craftsman | 2 | Compositors, typesetters and related workers |
| 7435 | textile\_worker | Textile Worker | 4 | Textile, leather and related pattern-makers and cutters |
| 7437 | textile\_worker | Textile Worker | 6 | Upholsterers and related workers |
| 8100 | machine\_operator | Machine Operator | 3 | Stationary plant and related operators |
| 8113 | machine\_operator | Machine Operator | 2 | Well drillers and borers and related workers |
| 8123 | machine\_operator | Machine Operator | 1 | Metal heat-treating-plant operators |
| 8141 | machine\_operator | Machine Operator | 3 | Wood-processing-plant operators |
| 8151 | machine\_operator | Machine Operator | 3 | Crushing-, grinding- and chemical-mixing-machinery operators |
| 8155 | machine\_operator | Machine Operator | 1 | Petroleum- and natural-gas-refining-plant operators |
| 8161 | machine\_operator | Machine Operator | 1 | Power-production plant operators |
| 8162 | machine\_operator | Machine Operator | 4 | Steam-engine and boiler operators |
| 8200 | machine\_operator | Machine Operator | 35 | Machine operators and assemblers |
| 8221 | machine\_operator | Machine Operator | 3 | Pharmaceutical-and toiletry-products machine operators |
| 8224 | machine\_operator | Machine Operator | 2 | Photographic-products machine operators |
| 8230 | machine\_operator | Machine Operator | 5 | Rubber- and plastic-products machine operators |
| 8231 | machine\_operator | Machine Operator | 1 | Rubber-products machine operators |
| 8232 | machine\_operator | Machine Operator | 7 | Plastic-products machine operators |
| 8251 | machine\_operator | Machine Operator | 9 | Printing-machine operators |
| 8253 | machine\_operator | Machine Operator | 1 | Paper-products machine operators |
| 8261 | machine\_operator | Machine Operator | 7 | Fibre-preparing-, spinning- and winding-machine operators |
| 8270 | machine\_operator | Machine Operator | 3 | Food and related products machine operators |
| 8282 | assembly\_line\_worker | Assembly Line Worker | 16 | Electrical-equipment assemblers |
| 8290 | machine\_operator | Machine Operator | 9 | Other machine operators not elsewhere classified |
| 8310 | railroad\_engineer | Railroad Engineer | 1 | Locomotive engine drivers and related workers |
| 8332 | bulldozer\_operator | Bulldozer Operator | 4 | Earth-moving and related plant operators |
| 8333 | crane\_operator | Crane Operator | 2 | Crane, hoist and related plant operators |
| 8334 | bulldozer\_operator | Bulldozer Operator | 11 | Lifting-truck operators |
| 9110 | salesperson | Salesperson | 4 | Street vendors and related workers |
| 9113 | salesperson | Salesperson | 6 | Door-to-door and telephone salespersons |
| 9152 | security\_guard | Security Guard | 4 | Doorkeepers, watchpersons and related workers |
| 9160 | garbage\_collector | Garbage Collector | 1 | Garbage collectors and related labourers |
| 9213 | laborer | Laborer | 2 | Fishery, hunting and trapping labourers |
| 9312 | construction\_laborer | Construction Laborer | 13 | Construction and maintenance labourers: roads, dams and similar constructions |

OCC codes without identity matches

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| isco88 | term | identity | num | MAJOR, SUB-MAJOR, MINOR AND UNIT GROUPS |
| 3133 | NA | NA | 6 | Medical equipment operators |
| 3434 | NA | NA | 3 | Statistical, mathematical and related associate professionals |
| 4114 | NA | NA | 10 | Calculating-machine operators |
| 4213 | NA | NA | 2 | Bookmakers and croupiers |
| 5100 | NA | NA | 1 | NA |
| 5113 | NA | NA | 2 | Travel guides |
| 7214 | NA | NA | 6 | Structural-metal preparers and erectors |
| 7243 | NA | NA | 5 | NA |
| 7415 | NA | NA | 2 | Food and beverage tasters and graders |
| 8340 | NA | NA | 2 | Ships’ deck crews and related workers |
| 9142 | NA | NA | 8 | Vehicle, window and related cleaners |
| 9153 | NA | NA | 1 | Vending-machine money collectors, meter readers and related workers |
| 9997 | NA | NA | 5 | NA |

### Occupational Characteristic Emotions

library(drake)

##   
## Attaching package: 'drake'

## The following objects are masked from 'package:tidyr':  
##   
## expand, gather

loadd(occs\_emotions)  
  
char\_e\_plot <- occs\_emotions %>%   
 group\_by(occ) %>%   
 slice(1) %>%   
 mutate(male = (e\_e - o\_e)^2 + (e\_p - o\_p)^2 + (e\_a - o\_a)^2,  
 female = (fe\_e - o\_e)^2 + (fe\_p - o\_p)^2 + (fe\_a - o\_a)^2) %>%   
 pivot\_longer(cols = male:female,   
 names\_to = "gender",   
 values\_to = "difference")  
  
occ\_histogram <- ggplot(data = char\_e\_plot, mapping = aes(x = difference)) +   
 geom\_histogram(binwidth = 0.1, fill = muted("pink")) + facet\_wrap(~gender) +   
 theme\_minimal() +   
 labs(title = "Difference between Characteristic Emotion and Fundamental Sentiment",  
 subtitle = "across 108 occupational identities in the analysis")  
  
ggsave(here("output/occ\_histogram.png"), occ\_histogram)

## Saving 5 x 4 in image

char\_e\_table <- char\_e\_plot %>%   
 group\_by(occ) %>%  
 slice(1) %>%   
 select(e\_e:o\_a) %>%   
 relocate(o\_e:o\_a) %>%   
 relocate(occ) %>%   
 ungroup() %>% mutate(identity = str\_replace\_all(occ, "\_", " "),  
 identity = str\_to\_title(identity)) %>% select(identity, o\_e:fe\_a)

## Adding missing grouping variables: `occ`

kable(char\_e\_table, col.names = c("occupational identity",  
 "Fundamental Evaluation",  
 "Fundamental Potency",  
 "Fundamental Activity",  
 "Characteristic E (male)",  
 "Characteristic P (male)",  
 "Characteristic A (male)",  
 "Characteristic E (female)",  
 "Characteristic P (female)",  
 "Characteristic A (female)"),  
 format = "pandoc")

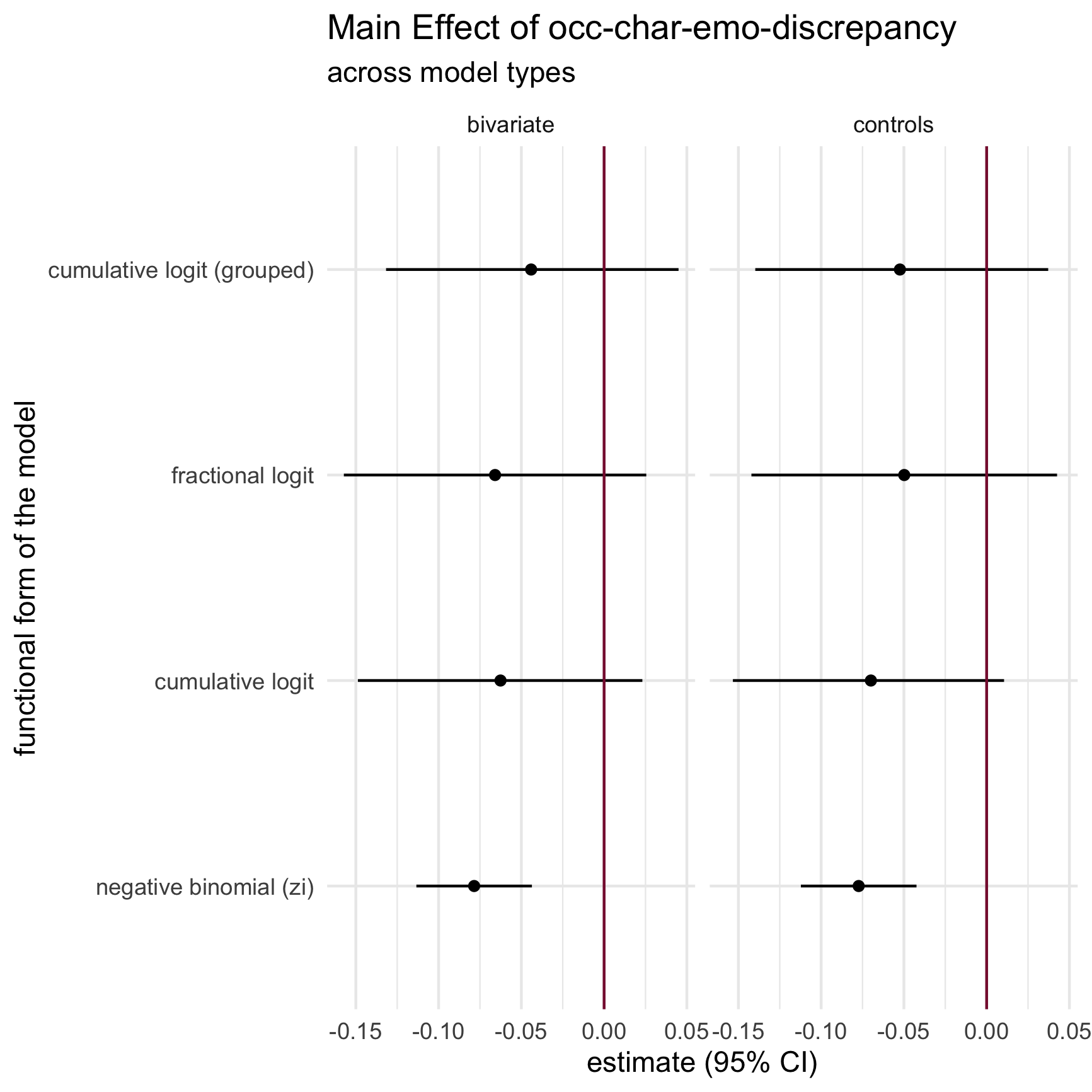
|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| occupational identity | Fundamental Evaluation | Fundamental Potency | Fundamental Activity | Characteristic E (male) | Characteristic P (male) | Characteristic A (male) | Characteristic E (female) | Characteristic P (female) | Characteristic A (female) |
| Accountant | 1.03 | 1.16 | -0.48 | 1.53 | 1.81 | 0.160 | 1.53 | 2.09 | 0.16 |
| Actor | 0.82 | 1.36 | 1.68 | 2.00 | 1.93 | 1.720 | 2.00 | 1.69 | 1.72 |
| Architect | 1.52 | 1.70 | -0.28 | 1.83 | 2.48 | 0.300 | 1.83 | 2.76 | 0.30 |
| Artist | 1.74 | 0.92 | -0.33 | 1.92 | 1.55 | 0.260 | 1.92 | 1.67 | 0.26 |
| Assembly Line Worker | 0.77 | -1.02 | 0.76 | 1.72 | -0.81 | 1.060 | 1.72 | -1.36 | 1.06 |
| Auctioneer | 0.76 | 1.19 | 3.03 | 2.36 | 1.62 | 2.710 | 2.36 | 1.04 | 2.71 |
| Auto Mechanic | 1.15 | 0.58 | 0.55 | 1.60 | 1.06 | 0.890 | 1.86 | 0.91 | 0.89 |
| Baby Sitter | 2.12 | 1.36 | 0.36 | 2.21 | 1.91 | 0.700 | 2.21 | 1.99 | 0.70 |
| Bank Manager | 1.11 | 1.81 | 0.27 | 1.77 | 2.56 | 0.690 | 1.77 | 2.74 | 0.69 |
| Bank Teller | 1.27 | 0.57 | -0.52 | 1.65 | 1.18 | 0.140 | 1.65 | 1.26 | 0.14 |
| Bellhop | 1.20 | -0.82 | 0.95 | 1.98 | -0.66 | 1.170 | 1.98 | -1.21 | 1.17 |
| Bill Collector | -1.07 | 1.63 | 1.02 | 0.20 | 2.68 | 1.270 | 0.20 | 2.64 | 1.27 |
| Biologist | 1.83 | 1.45 | -0.11 | 2.00 | 2.14 | 0.410 | 2.00 | 2.33 | 0.41 |
| Bulldozer Operator | 0.44 | 1.17 | 1.38 | 1.72 | 1.82 | 1.540 | 1.72 | 1.59 | 1.54 |
| Bus Driver | 1.31 | 0.17 | 0.05 | 1.81 | 0.62 | 0.530 | 1.81 | 0.50 | 0.53 |
| Butcher | 0.75 | 0.77 | 0.67 | 1.68 | 1.33 | 0.990 | 1.68 | 1.19 | 0.99 |
| Cabinet Maker | 1.10 | 0.71 | 0.28 | 1.76 | 1.25 | 0.700 | 1.76 | 1.19 | 0.70 |
| Carpenter | 1.25 | 0.65 | 0.86 | 1.98 | 1.09 | 1.100 | 1.98 | 0.89 | 1.10 |
| Cashier | 0.65 | -0.73 | 0.42 | 1.55 | -0.42 | 0.820 | 1.55 | -0.83 | 0.82 |
| Cement Worker | 0.79 | 0.27 | 0.92 | 1.78 | 0.71 | 1.170 | 1.78 | 0.40 | 1.17 |
| Chambermaid | 0.50 | -1.52 | -0.84 | 1.08 | -1.26 | -0.110 | 1.08 | -1.56 | -0.11 |
| Chemist | 1.82 | 1.88 | -0.68 | 1.88 | 2.76 | 0.020 | 1.88 | 3.16 | 0.02 |
| Civil Engineer | 1.70 | 1.55 | -0.02 | 1.97 | 2.25 | 0.470 | 1.97 | 2.44 | 0.47 |
| Civil Servant | 1.18 | -0.17 | -0.54 | 1.60 | 0.31 | 0.120 | 1.60 | 0.23 | 0.12 |
| Clergy | 1.08 | 1.44 | -0.73 | 1.49 | 2.24 | -0.010 | 1.49 | 2.56 | -0.01 |
| Clerical Worker | 1.11 | -0.09 | -0.47 | 1.58 | 0.39 | 0.170 | 1.58 | 0.32 | 0.17 |
| Clerk | 0.98 | -0.40 | -0.09 | 1.60 | -0.01 | 0.440 | 1.60 | -0.24 | 0.44 |
| Computer Programmer | 1.51 | 1.46 | 0.01 | 1.89 | 2.15 | 0.500 | 1.89 | 2.31 | 0.50 |
| Computer Support Specialist | 1.33 | 0.82 | -0.02 | 1.80 | 1.40 | 0.480 | 1.80 | 1.43 | 0.48 |
| Construction Laborer | 1.33 | 0.68 | 1.59 | 2.19 | 1.01 | 1.600 | 2.19 | 0.65 | 1.60 |
| Cook | 2.24 | 1.69 | 1.58 | 2.49 | 2.02 | 1.490 | 2.49 | 1.92 | 1.49 |
| Craftsman | 1.59 | 1.07 | -0.31 | 1.86 | 1.73 | 0.280 | 1.86 | 1.88 | 0.28 |
| Crane Operator | 0.94 | 1.23 | 0.29 | 1.68 | 1.89 | 0.710 | 1.68 | 1.93 | 0.71 |
| Custodian | 1.54 | -0.82 | -0.93 | 1.69 | -0.41 | -0.150 | 1.69 | -0.54 | -0.15 |
| Decorator | 1.70 | 0.81 | 0.84 | 2.16 | 1.21 | 1.050 | 2.16 | 1.06 | 1.05 |
| Dentist | 1.62 | 1.51 | 0.08 | 1.96 | 2.19 | 0.540 | 1.96 | 2.35 | 0.54 |
| Detective | 1.65 | 1.93 | -0.80 | 1.77 | 2.84 | -0.060 | 1.77 | 3.28 | -0.06 |
| Doctor | 2.69 | 2.94 | 0.37 | 2.39 | 3.74 | 0.680 | 2.39 | 4.17 | 0.68 |
| Electrical Engineer | 1.71 | 1.61 | 0.28 | 2.04 | 2.26 | 0.670 | 2.04 | 2.40 | 0.67 |
| Electrical Linesman | 1.01 | 0.64 | 0.34 | 1.73 | 1.17 | 0.750 | 1.73 | 1.08 | 0.75 |
| Electrician | 1.26 | 0.43 | -0.11 | 1.75 | 0.96 | 0.420 | 1.75 | 0.92 | 0.42 |
| Elementary School Teacher | 2.66 | 1.81 | 0.71 | 2.44 | 2.31 | 0.890 | 2.44 | 2.43 | 0.89 |
| Engineer | 1.75 | 1.94 | 0.30 | 2.06 | 2.65 | 0.690 | 2.06 | 2.86 | 0.69 |
| Executive | 0.82 | 2.73 | 1.50 | 1.95 | 3.57 | 1.590 | 1.95 | 3.67 | 1.59 |
| Farm Laborer | 1.47 | -0.01 | -0.20 | 1.83 | 0.44 | 0.350 | 1.83 | 0.32 | 0.35 |
| File Clerk | 0.58 | -0.67 | -1.05 | 1.08 | -0.24 | -0.260 | 1.08 | -0.30 | -0.26 |
| Fire Investigator | 1.95 | 1.66 | 0.43 | 2.16 | 2.27 | 0.760 | 2.16 | 2.40 | 0.76 |
| Firefighter | 3.27 | 2.85 | 2.29 | 2.85 | 2.99 | 1.810 | 2.85 | 3.05 | 1.81 |
| Flight Attendant | 1.51 | 0.44 | 0.31 | 1.96 | 0.89 | 0.700 | 1.96 | 0.76 | 0.70 |
| Garbage Collector | 1.25 | -0.49 | 0.42 | 1.87 | -0.21 | 0.790 | 1.87 | -0.56 | 0.79 |
| Hairdresser | 1.56 | -0.01 | 1.01 | 2.14 | 0.23 | 1.180 | 2.14 | -0.14 | 1.18 |
| Handyman | 1.76 | 1.04 | 0.46 | 2.10 | 1.55 | 0.079 | 2.10 | 1.53 | 0.79 |
| Housekeeper | 1.40 | -0.74 | -0.53 | 1.71 | -0.38 | 0.130 | 1.71 | -0.58 | 0.13 |
| Inspector | 0.57 | 1.54 | -0.67 | 1.18 | 2.36 | 0.020 | 1.18 | 2.69 | 0.02 |
| Insurance Agent | 0.52 | 0.68 | 0.24 | 1.42 | 1.28 | 0.690 | 1.42 | 1.22 | 0.69 |
| Janitor | 1.45 | -0.87 | -0.94 | 1.64 | -0.47 | -0.150 | 1.64 | -0.61 | -0.15 |
| Journalist | 0.85 | 1.55 | 1.02 | 1.83 | 2.21 | 1.240 | 1.83 | 2.16 | 1.24 |
| Laborer | 1.02 | -0.11 | 0.32 | 1.73 | 0.28 | 0.730 | 1.73 | 0.03 | 0.73 |
| Landscaper | 1.29 | 0.15 | 0.28 | 1.86 | 0.57 | 0.690 | 1.86 | 0.39 | 0.69 |
| Lawyer | 0.83 | 2.63 | 1.75 | 2.03 | 3.42 | 1.770 | 2.03 | 3.45 | 1.77 |
| Legislator | -0.07 | 2.18 | 0.31 | 1.00 | 3.13 | 0.740 | 1.00 | 3.37 | 0.74 |
| Librarian | 1.83 | -0.28 | -2.06 | 1.58 | 0.46 | -0.900 | 1.58 | 0.68 | -0.90 |
| Library Assistant | 1.78 | -0.06 | -2.02 | 1.57 | 0.70 | -0.880 | 1.57 | 0.97 | -0.88 |
| Machine Operator | 0.94 | 0.29 | 1.10 | 1.90 | 0.69 | 1.290 | 1.90 | 0.35 | 1.29 |
| Machine Operator In A Factory | 0.94 | 0.29 | 1.10 | 1.90 | 0.69 | 1.290 | 1.90 | 0.35 | 1.29 |
| Machine Repairer | 1.36 | 1.02 | 0.68 | 1.99 | 1.54 | 0.970 | 1.99 | 1.46 | 0.97 |
| Mail Carrier | 1.93 | 0.02 | -0.44 | 1.97 | 0.50 | 0.180 | 1.97 | 0.45 | 0.18 |
| Manager | 1.15 | 2.61 | 1.29 | 2.05 | 3.38 | 1.410 | 2.05 | 3.51 | 1.41 |
| Manager Of Branch Store | 1.23 | 1.42 | 1.25 | 2.07 | 1.95 | 1.370 | 2.07 | 1.83 | 1.37 |
| Mechanical Engineer | 1.63 | 1.69 | -0.06 | 1.93 | 2.42 | 0.450 | 1.93 | 2.65 | 0.45 |
| Musician | 1.77 | 1.25 | 1.47 | 2.32 | 1.61 | 1.470 | 2.32 | 1.42 | 1.47 |
| Nurse | 2.84 | 1.75 | 0.53 | 2.46 | 2.27 | 0.770 | 2.46 | 2.41 | 0.77 |
| Nursing Assistant | 2.32 | 0.94 | 0.38 | 2.28 | 1.39 | 0.710 | 2.28 | 1.38 | 0.71 |
| Nutritionist | 2.30 | 1.20 | 0.16 | 2.23 | 1.75 | 0.560 | 2.23 | 1.84 | 0.56 |
| Pharmacist | 2.09 | 1.38 | -0.42 | 2.04 | 2.11 | 0.190 | 2.04 | 2.35 | 0.19 |
| Photographer | 1.68 | 1.20 | -0.68 | 1.81 | 1.95 | 0.020 | 1.81 | 2.20 | 0.02 |
| Physician | 2.41 | 2.35 | -0.04 | 2.23 | 3.16 | 0.430 | 2.23 | 3.54 | 0.43 |
| Physicist | 1.60 | 1.41 | -0.43 | 1.83 | 2.16 | 0.190 | 1.83 | 2.40 | 0.19 |
| Plumber | 1.51 | 0.39 | -0.11 | 1.87 | 0.90 | 0.420 | 1.87 | 0.85 | 0.42 |
| Police Officer | 1.05 | 2.49 | 1.43 | 2.04 | 3.24 | 1.520 | 2.04 | 3.31 | 1.52 |
| Professional | 1.72 | 2.23 | 0.09 | 2.00 | 3.03 | 0.540 | 2.00 | 3.35 | 0.54 |
| Professor | 1.83 | 2.27 | 0.24 | 2.08 | 3.04 | 0.640 | 2.08 | 3.34 | 0.64 |
| Psychologist | 1.61 | 1.44 | -0.89 | 1.73 | 2.27 | -0.120 | 1.73 | 2.62 | -0.12 |
| Real Estate Agent | 0.79 | 1.04 | 1.21 | 1.86 | 1.60 | 1.380 | 1.86 | 1.39 | 1.38 |
| Receptionist | 1.27 | -0.16 | -0.04 | 1.77 | 0.25 | 0.470 | 1.77 | 0.07 | 0.47 |
| Salesclerk | 0.77 | -0.01 | 1.08 | 1.81 | 0.36 | 1.290 | 1.81 | -0.04 | 1.29 |
| Salesperson | 0.15 | 0.39 | 2.14 | 1.80 | 0.94 | 2.140 | 1.80 | 0.36 | 2.14 |
| Scientist | 1.89 | 1.84 | -0.35 | 1.98 | 2.64 | 0.240 | 1.98 | 2.97 | 0.24 |
| Secretary | 1.59 | -0.22 | -0.31 | 1.86 | 0.20 | 0.280 | 1.86 | 0.07 | 0.28 |
| Security Guard | 1.38 | 1.49 | -0.11 | 1.81 | 2.21 | 0.420 | 1.81 | 2.41 | 0.42 |
| Sewing Machine Operator | 1.03 | -0.53 | -0.07 | 1.64 | -0.17 | 0.450 | 1.64 | -0.43 | 0.45 |
| Sheet Metal Worker | 0.91 | 0.31 | 1.15 | 1.90 | 0.71 | 1.330 | 1.90 | 0.36 | 1.33 |
| Ship Captain | 1.89 | 2.54 | 1.47 | 2.36 | 3.12 | 1.460 | 2.36 | 3.22 | 1.46 |
| Shop Clerk | 1.27 | -0.38 | 0.10 | 1.80 | -0.29 | 0.570 | 1.80 | -0.29 | 0.57 |
| Social Worker | 2.12 | 1.27 | -0.10 | 2.12 | 1.91 | 0.400 | 2.12 | 2.06 | 0.40 |
| Stockbroker | 0.27 | 1.82 | 1.51 | 1.66 | 2.62 | 1.650 | 1.66 | 2.51 | 1.65 |
| Supervisor | 0.76 | 1.99 | 0.73 | 1.71 | 2.77 | 1.040 | 1.71 | 2.88 | 1.04 |
| Taxi Driver | 0.75 | -0.34 | 1.67 | 1.97 | -0.07 | 1.720 | 1.97 | -0.69 | 1.72 |
| Teacher | 2.50 | 2.31 | 0.32 | 2.33 | 3.02 | 0.660 | 2.33 | 3.32 | 0.66 |
| Technician | 1.67 | 1.08 | 0.45 | 2.06 | 1.61 | 0.790 | 2.06 | 1.60 | 0.79 |
| Telephone Operator | 0.40 | -0.18 | 0.57 | 1.44 | 0.26 | 0.930 | 1.44 | -0.07 | 0.93 |
| Textile Worker | 0.82 | -0.68 | 0.20 | 1.59 | -0.36 | 0.650 | 1.59 | -0.71 | 0.65 |
| Tool And Die Maker | 0.80 | 0.19 | -0.15 | 1.48 | 0.71 | 0.400 | 1.48 | 0.62 | 0.40 |
| Travel Agent | 1.43 | 0.54 | 0.98 | 2.09 | 0.91 | 1.170 | 2.09 | 0.66 | 1.17 |
| Typist | 0.61 | -0.38 | 1.04 | 1.71 | -0.04 | 1.270 | 1.71 | -0.52 | 1.27 |
| Waitress | 1.50 | -0.21 | 1.30 | 2.19 | 0.04 | 1.380 | 2.19 | -0.52 | 1.38 |
| Welder | 0.92 | 0.51 | 0.88 | 1.83 | 0.97 | 1.140 | 1.83 | 0.73 | 1.14 |
| Wholesaler | 0.80 | 1.08 | 0.54 | 1.68 | 1.70 | 0.900 | 1.68 | 1.66 | 0.90 |

## Modeling Discussion

In trying to account for the bimodal, censored count distribution for the dependent variable several methods were attempted. Initially, a zero-inflated negative binomial was fit to the model to account for the high number of zeros as well as the overdispersion, but upon investigating model fit, the model predicted counts of emotion over 7, over-predicted counts between 2 and 5, and under-predicted counts of 7.

Responding to that issue, I modeled the dependent variable as a: cumulative logit with each integer its own factor level, like a Likert scale response variable; cumulative logit that was grouped as 0, 1-3, 4-6, and 7; and a fractional logit, where each count was divided by 7 to re-scale the response variable to be between 0 and 1.

The main effect of occ-char-emo-discrepancy is plotted in the figure below, with 95% confidence intervals (the estimates were not re-scaled and have different meanings across models, this is to show significance, not substantive interpretation). All of the estimates are in the same direction as the main results in the paper (negative), but only the estimate produced by the negative binomial model is significant. This is notable because I think it is important to acknowledge that applying different assumptions to the modeling strategy changes how important the distance from emotion is in affecting the experience of emotion. It appears that the occ-char-emo-discrepancy is not sensitive enough to affect one day differences in emotional experience, but rather distinguishes between frequent and infrequent emotional experience. However, even when the effect is not significant, it remains in the expected direction.



Model Comparison Plot