**6. Supplementary material**

S1: Supplementary Table showing a comprehensive listing of all significant associations for all covariates at Q<0.05. The p-values listed are uncorrected.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item**  | **Domain**  | **T** | **p** |
|  |  |  |  |
| **Education - 180 items** |  |  |  |
| **Positive** |  |  |  |
|  WrittenComprehension  |  Abilities  | 7.5256 | 7.78E-13 |
|  ActiveLearning  |  Skills  | 7.2708 | 3.84E-12 |
|  OralExpression  |  Abilities  | 7.2525 | 4.30E-12 |
|  WrittenExpression  |  Abilities  | 7.1636 | 7.43E-12 |
|  ReadingComprehension  |  Skills  | 7.1374 | 8.73E-12 |
|  Writing  |  Skills  | 7.0934 | 1.14E-11 |
|  Speaking  |  Skills  | 6.9272 | 3.12E-11 |
|  JudgmentandDecisionMaking  |  Skills  | 6.6831 | 1.33E-10 |
|  OralComprehension  |  Abilities  | 6.618 | 1.94E-10 |
|  DeductiveReasoning  |  Abilities  | 6.4681 | 4.61E-10 |
|  CriticalThinking  |  Skills  | 6.4554 | 4.96E-10 |
|  ActiveListening  |  Skills  | 6.4416 | 5.37E-10 |
|  InductiveReasoning  |  Abilities  | 6.4222 | 6.00E-10 |
|  Achievement  |  WorkValues  | 6.296 | 1.23E-09 |
|  EnglishLanguage  |  Knowledge  | 6.2815 | 1.33E-09 |
|  CategoryFlexibility  |  Abilities  | 5.9894 | 6.67E-09 |
|  WorkingConditions  |  WorkValues  | 5.9478 | 8.36E-09 |
|  InterpretingtheMeaningofInformationforOthers  |  WorkActivities | 5.9171 | 9.86E-09 |
|  LearningStrategies  |  Skills  | 5.8614 | 1.33E-08 |
|  GettingInformation  |  WorkActivities | 5.777 | 2.08E-08 |
|  AnalyzingDataorInformation  |  WorkActivities | 5.7592 | 2.29E-08 |
|  ComplexProblemSolving  |  Skills  | 5.7507 | 2.39E-08 |
|  UpdatingandUsingRelevantKnowledge  |  WorkActivities | 5.7417 | 2.51E-08 |
|  SpeechClarity  |  Abilities  | 5.639 | 4.29E-08 |
|  Recognition  |  WorkValues  | 5.6229 | 4.67E-08 |
|  AnalyticalThinking  |  WorkStyles  | 5.6117 | 4.95E-08 |
|  SystemsAnalysis  |  Skills  | 5.3987 | 1.47E-07 |
|  AchievementEffort  |  WorkStyles  | 5.3467 | 1.90E-07 |
|  ProvideConsultationandAdvicetoOthers  |  WorkActivities | 5.3433 | 1.94E-07 |
|  InformationOrdering  |  Abilities  | 5.3214 | 2.16E-07 |
|  ElectronicMail  |  WorkContext  | 5.3013 | 2.39E-07 |
|  Investigative  |  Interests  | 5.229 | 3.41E-07 |
|  SystemsEvaluation  |  Skills  | 5.1924 | 4.08E-07 |
|  FluencyofIdeas  |  Abilities  | 5.1521 | 4.97E-07 |
|  PublicSpeaking  |  WorkContext  | 5.0217 | 9.30E-07 |
|  MakingDecisionsandSolvingProblems  |  WorkActivities | 4.83 | 2.29E-06 |
|  Memorization  |  Abilities  | 4.7145 | 3.88E-06 |
|  Integrity  |  WorkStyles  | 4.6667 | 4.82E-06 |
|  LawandGovernment  |  Knowledge  | 4.6539 | 5.10E-06 |
|  NearVision  |  Abilities  | 4.6496 | 5.20E-06 |
|  Originality  |  Abilities  | 4.5833 | 6.99E-06 |
|  Instructing  |  Skills  | 4.5797 | 7.11E-06 |
|  ProblemSensitivity  |  Abilities  | 4.5226 | 9.14E-06 |
|  ThinkingCreatively  |  WorkActivities | 4.4168 | 1.45E-05 |
|  Persuasion  |  Skills  | 4.3807 | 1.69E-05 |
|  Science  |  Skills  | 4.3744 | 1.74E-05 |
|  Initiative  |  WorkStyles  | 4.3701 | 1.77E-05 |
|  DevelopingObjectivesandStrategies  |  WorkActivities | 4.3633 | 1.82E-05 |
|  LettersandMemos  |  WorkContext  | 4.3456 | 1.97E-05 |
|  ProcessingInformation  |  WorkActivities | 4.3078 | 2.31E-05 |
|  Persistence  |  WorkStyles  | 4.2476 | 2.97E-05 |
|  DocumentingRecordingInformation  |  WorkActivities | 4.2068 | 3.52E-05 |
|  EstablishingandMaintainingInterpersonalRelationships  |  WorkActivities | 4.1225 | 4.99E-05 |
|  Monitoring  |  Skills  | 4.1201 | 5.03E-05 |
|  FreedomtoMakeDecisions  |  WorkContext  | 4.0677 | 6.23E-05 |
|  SociologyandAnthropology  |  Knowledge  | 4.0583 | 6.47E-05 |
|  OrganizingPlanningandPrioritizingWork  |  WorkActivities | 3.9836 | 8.73E-05 |
|  EvaluatingInformationtoDetermineCompliancewithStandards  |  WorkActivities | 3.9107 | 0.00011641 |
|  HistoryandArcheology  |  Knowledge  | 3.8398 | 0.00015332 |
|  IdentifyingObjectsActionsandEvents  |  WorkActivities | 3.793 | 0.00018358 |
|  TrainingandTeachingOthers  |  WorkActivities | 3.7852 | 0.00018914 |
|  Negotiation  |  Skills  | 3.6784 | 0.00028304 |
|  SocialPerceptiveness  |  Skills  | 3.6773 | 0.00028417 |
|  EducationandTraining  |  Knowledge  | 3.6483 | 0.00031659 |
|  TimeManagement  |  Skills  | 3.6118 | 0.00036227 |
|  Independence\_2  |  WorkValues  | 3.5695 | 0.00042292 |
|  IndoorsEnvironmentallyControlled  |  WorkContext  | 3.4862 | 0.00057125 |
|  PhilosophyandTheology  |  Knowledge  | 3.4325 | 0.00069152 |
|  InteractingWithComputers  |  WorkActivities | 3.4316 | 0.00069378 |
|  ResolvingConflictsandNegotiatingwithOthers  |  WorkActivities | 3.4255 | 0.00070878 |
|  SpeedofClosure  |  Abilities  | 3.4166 | 0.00073138 |
|  SpendTimeSitting  |  WorkContext  | 3.3823 | 0.00082479 |
|  JudgingtheQualitiesofThingsServicesorPeople  |  WorkActivities | 3.3044 | 0.00108 |
|  SpeechRecognition  |  Abilities  | 3.1814 | 0.0016364 |
|  SchedulingWorkandActivities  |  WorkActivities | 3.1586 | 0.0017644 |
|  Telephone  |  WorkContext  | 3.1531 | 0.0017969 |
|  TherapyandCounseling  |  Knowledge  | 3.1121 | 0.0020564 |
|  ComputersandElectronics  |  Knowledge  | 3.0786 | 0.0022929 |
|  CoachingandDevelopingOthers  |  WorkActivities | 3.0537 | 0.0024852 |
|  StructuredversusUnstructuredWork  |  WorkContext  | 3.0374 | 0.0026191 |
|  PersonnelandHumanResources  |  Knowledge  | 2.9805 | 0.0031393 |
|  MathematicalReasoning  |  Abilities  | 2.9326 | 0.003649 |
|  OperationsAnalysis  |  Skills  | 2.9215 | 0.0037765 |
|  DurationofTypicalWorkWeek  |  WorkContext  | 2.8925 | 0.004132 |
|  CommunicatingwithPersonsOutsideOrganization  |  WorkActivities | 2.8168 | 0.0052077 |
|  FacetoFaceDiscussions  |  WorkContext  | 2.7985 | 0.0055028 |
|  FlexibilityofClosure  |  Abilities  | 2.6976 | 0.0074223 |
|  EconomicsandAccounting  |  Knowledge  | 2.6802 | 0.0078095 |
|  Social  |  Interests  | 2.6564 | 0.0083661 |
|  Psychology  |  Knowledge  | 2.609 | 0.0095852 |
|  Geography  |  Knowledge  | 2.5286 | 0.012019 |
|  Leadership  |  WorkStyles  | 2.4617 | 0.014453 |
|  CommunicationsandMedia  |  Knowledge  | 2.4377 | 0.015422 |
|  AdministrationandManagement  |  Knowledge  | 2.3945 | 0.017322 |
|  PerformingAdministrativeActivities  |  WorkActivities | 2.3631 | 0.018828 |
|  AdaptabilityFlexibility  |  WorkStyles  | 2.3536 | 0.019308 |
|  SellingorInfluencingOthers  |  WorkActivities | 2.3526 | 0.019357 |
|  ManagementofPersonnelResources  |  Skills  | 2.322 | 0.020972 |
|  AttentiontoDetail  |  WorkStyles  | 2.3045 | 0.021949 |
|  CoordinateorLeadOthers  |  WorkContext  | 2.3037 | 0.021995 |
|  CoordinatingtheWorkandActivitiesofOthers  |  WorkActivities | 2.2704 | 0.023968 |
|  Mathematics\_1  |  Skills  | 2.1955 | 0.028974 |
|  ConsequenceofError  |  WorkContext  | 2.1837 | 0.029843 |
|  ServiceOrientation  |  Skills  | 2.15 | 0.032444 |
|  MonitorProcessesMaterialsorSurroundings  |  WorkActivities | 2.1348 | 0.033678 |
| **Negative** |  |  |  |
|  SpendTimeKneelingCrouchingStoopingorCrawling  |  WorkContext  | -5.9534 | 8.11E-09 |
|  StaticStrength  |  Abilities  | -5.7125 | 2.93E-08 |
|  MultilimbCoordination  |  Abilities  | -5.5934 | 5.44E-08 |
|  SpendTimeBendingorTwistingtheBody  |  WorkContext  | -5.5346 | 7.36E-08 |
|  CrampedWorkSpaceAwkwardPositions  |  WorkContext  | -5.4708 | 1.02E-07 |
|  HandlingandMovingObjects  |  WorkActivities | -5.4265 | 1.28E-07 |
|  ManualDexterity  |  Abilities  | -5.3087 | 2.30E-07 |
|  SpeedofLimbMovement  |  Abilities  | -5.2865 | 2.57E-07 |
|  ExtentFlexibility  |  Abilities  | -5.2267 | 3.45E-07 |
|  GrossBodyCoordination  |  Abilities  | -5.0671 | 7.49E-07 |
|  GrossBodyEquilibrium  |  Abilities  | -5.0389 | 8.57E-07 |
|  ArmHandSteadiness  |  Abilities  | -5.0059 | 1.00E-06 |
|  OperatingVehiclesMechanizedDevicesorEquipment  |  WorkActivities | -4.9312 | 1.43E-06 |
|  RateControl  |  Abilities  | -4.9229 | 1.48E-06 |
|  PerformingGeneralPhysicalActivities  |  WorkActivities | -4.8677 | 1.92E-06 |
|  Stamina  |  Abilities  | -4.8364 | 2.22E-06 |
|  SpendTimeKeepingorRegainingBalance  |  WorkContext  | -4.8333 | 2.25E-06 |
|  ControlPrecision  |  Abilities  | -4.8166 | 2.43E-06 |
|  DynamicStrength  |  Abilities  | -4.7505 | 3.29E-06 |
|  PaceDeterminedbySpeedofEquipment  |  WorkContext  | -4.6182 | 5.99E-06 |
|  RepairingandMaintainingMechanicalEquipment  |  WorkActivities | -4.5786 | 7.14E-06 |
|  ResponseOrientation  |  Abilities  | -4.5482 | 8.17E-06 |
|  ExposedtoContaminants  |  WorkContext  | -4.4913 | 1.05E-05 |
|  InanOpenVehicleorEquipment  |  WorkContext  | -4.4399 | 1.31E-05 |
|  ReactionTime  |  Abilities  | -4.3435 | 1.98E-05 |
|  SpendTimeWalkingandRunning  |  WorkContext  | -4.2952 | 2.43E-05 |
|  VeryHotorColdTemperatures  |  WorkContext  | -4.1027 | 5.41E-05 |
|  SpendTimeStanding  |  WorkContext  | -4.101 | 5.44E-05 |
|  ControllingMachinesandProcesses  |  WorkActivities | -4.0706 | 6.16E-05 |
|  Realistic  |  Interests  | -4.0085 | 7.90E-05 |
|  GlareSensitivity  |  Abilities  | -3.9952 | 8.33E-05 |
|  ExposedtoHazardousEquipment  |  WorkContext  | -3.976 | 9.00E-05 |
|  ExposedtoMinorBurnsCutsBitesorStings  |  WorkContext  | -3.9757 | 9.01E-05 |
|  OperationandControl  |  Skills  | -3.9559 | 9.74E-05 |
|  TrunkStrength  |  Abilities  | -3.9555 | 9.76E-05 |
|  SpendTimeUsingYourHandstoHandleControlorFeelObjectsToolsorContro |  WorkContext  | -3.8892 | 0.00012658 |
|  ExtremelyBrightorInadequateLighting  |  WorkContext  | -3.8801 | 0.00013117 |
|  ExposedtoWholeBodyVibration  |  WorkContext  | -3.8772 | 0.00013265 |
|  ExposedtoHighPlaces  |  WorkContext  | -3.874 | 0.00013429 |
|  WorkSchedules  |  WorkContext  | -3.7953 | 0.00018198 |
|  SoundLocalization  |  Abilities  | -3.7771 | 0.00019502 |
|  NightVision  |  Abilities  | -3.6558 | 0.00030793 |
|  PeripheralVision  |  Abilities  | -3.6206 | 0.00035072 |
|  SoundsNoiseLevelsAreDistractingorUncomfortable  |  WorkContext  | -3.6137 | 0.00035979 |
|  SpendTimeClimbingLaddersScaffoldsorPoles  |  WorkContext  | -3.4204 | 0.00072155 |
|  OperationMonitoring  |  Skills  | -3.4058 | 0.00075969 |
|  Troubleshooting  |  Skills  | -3.3503 | 0.00092181 |
|  DepthPerception  |  Abilities  | -3.3261 | 0.0010022 |
|  ExposedtoHazardousConditions  |  WorkContext  | -3.2808 | 0.0011706 |
|  Mechanical  |  Knowledge  | -3.2793 | 0.0011768 |
|  SpatialOrientation  |  Abilities  | -3.2635 | 0.0012415 |
|  SpendTimeMakingRepetitiveMotions  |  WorkContext  | -3.2194 | 0.001441 |
|  ExplosiveStrength  |  Abilities  | -3.1768 | 0.0016614 |
|  WearCommonProtectiveorSafetyEquipmentsuchasSafetyShoesGlassesGlo |  WorkContext  | -3.1584 | 0.0017657 |
|  HearingSensitivity  |  Abilities  | -3.0507 | 0.0025093 |
|  PhysicalProximity  |  WorkContext  | -3.0058 | 0.0028971 |
|  EquipmentMaintenance  |  Skills  | -2.926 | 0.0037241 |
|  FingerDexterity  |  Abilities  | -2.8939 | 0.004114 |
|  DynamicFlexibility  |  Abilities  | -2.8172 | 0.0052002 |
|  RepairingandMaintainingElectronicEquipment  |  WorkActivities | -2.8004 | 0.0054713 |
|  ProductionandProcessing  |  Knowledge  | -2.79 | 0.0056457 |
|  QualityControlAnalysis  |  Skills  | -2.7753 | 0.0058992 |
|  IndoorsNotEnvironmentallyControlled  |  WorkContext  | -2.7616 | 0.0061452 |
|  ImportanceofRepeatingSameTasks  |  WorkContext  | -2.7545 | 0.0062769 |
|  Repairing  |  Skills  | -2.6419 | 0.0087229 |
|  OutdoorsExposedtoWeather  |  WorkContext  | -2.6182 | 0.0093377 |
|  OutdoorsUnderCover  |  WorkContext  | -2.5413 | 0.011602 |
|  AuditoryAttention  |  Abilities  | -2.4513 | 0.014864 |
|  VisualColorDiscrimination  |  Abilities  | -2.4436 | 0.01518 |
|  WristFingerSpeed  |  Abilities  | -2.4097 | 0.016632 |
|  Transportation  |  Knowledge  | -2.3591 | 0.01903 |
|  FoodProduction  |  Knowledge  | -2.2816 | 0.023287 |
|  DraftingLayingOutandSpecifyingTechnicalDevicesPartsandEquipment  |  WorkActivities | -2.1484 | 0.032564 |
|  InspectingEquipmentStructuresorMaterial  |  WorkActivities | -2.1419 | 0.033092 |
|  |  |  |  |
|   |  |  |  |
| **Gender - 57 items** |  |  |  |
| **Positive - associated with being a woman** |  |  |  |
|  Artistic  |  Interests  | 3.5895 | 0.00039319 |
|  Independence  |  WorkStyles  | 3.5324 | 0.00048385 |
|  SocialOrientation  |  WorkStyles  | 3.5204 | 0.00050533 |
|  Innovation  |  WorkStyles  | 3.4141 | 0.00073776 |
|  FineArts  |  Knowledge  | 3.3917 | 0.00079826 |
|  SociologyandAnthropology  |  Knowledge  | 3.3478 | 0.00092996 |
|  CommunicationsandMedia  |  Knowledge  | 3.3209 | 0.0010205 |
|  PhilosophyandTheology  |  Knowledge  | 3.3119 | 0.0010524 |
|  Clerical  |  Knowledge  | 3.3113 | 0.0010547 |
|  Dependability  |  WorkStyles  | 3.2894 | 0.0011368 |
|  Social  |  Interests  | 3.2119 | 0.0014779 |
|  Relationships  |  WorkValues  | 3.1143 | 0.0020416 |
|  SpeechClarity  |  Abilities  | 3.1128 | 0.0020518 |
|  AdaptabilityFlexibility  |  WorkStyles  | 3.0501 | 0.002514 |
|  Cooperation  |  WorkStyles  | 2.9019 | 0.0040144 |
|  ServiceOrientation  |  Skills  | 2.8794 | 0.0043017 |
|  SpeechRecognition  |  Abilities  | 2.8075 | 0.0053552 |
|  Memorization  |  Abilities  | 2.8057 | 0.0053853 |
|  ConcernforOthers  |  WorkStyles  | 2.751 | 0.0063417 |
|  PerformingfororWorkingDirectlywiththePublic  |  WorkActivities | 2.613 | 0.009477 |
|  OrganizingPlanningandPrioritizingWork  |  WorkActivities | 2.6058 | 0.0096723 |
|  Writing  |  Skills  | 2.5369 | 0.011746 |
| **Negative - asociated with being a man** |  |  |  |
|  SoundLocalization  |  Abilities  | -4.3912 | 1.62E-05 |
|  SpatialOrientation  |  Abilities  | -4.2588 | 2.84E-05 |
|  InanOpenVehicleorEquipment  |  WorkContext  | -4.2431 | 3.03E-05 |
|  NightVision  |  Abilities  | -4.1894 | 3.79E-05 |
|  SpendTimeClimbingLaddersScaffoldsorPoles  |  WorkContext  | -4.101 | 5.44E-05 |
|  Mechanical  |  Knowledge  | -4.0904 | 5.68E-05 |
|  PeripheralVision  |  Abilities  | -4.0362 | 7.07E-05 |
|  OperatingVehiclesMechanizedDevicesorEquipment  |  WorkActivities | -3.9368 | 0.00010506 |
|  GlareSensitivity  |  Abilities  | -3.8362 | 0.00015547 |
|  Realistic  |  Interests  | -3.7558 | 0.00021151 |
|  InspectingEquipmentStructuresorMaterial  |  WorkActivities | -3.7294 | 0.00023373 |
|  BuildingandConstruction  |  Knowledge  | -3.6899 | 0.00027115 |
|  DepthPerception  |  Abilities  | -3.634 | 0.00033381 |
|  ReactionTime  |  Abilities  | -3.6324 | 0.00033572 |
|  Troubleshooting  |  Skills  | -3.594 | 0.00038673 |
|  ExposedtoHazardousEquipment  |  WorkContext  | -3.5502 | 0.00045374 |
|  EngineeringandTechnology  |  Knowledge  | -3.5093 | 0.00052597 |
|  Installation  |  Skills  | -3.5039 | 0.00053619 |
|  ExposedtoHighPlaces  |  WorkContext  | -3.4775 | 0.00058939 |
|  RateControl  |  Abilities  | -3.337 | 0.00096526 |
|  EstimatingtheQuantifiableCharacteristicsofProductsEventsorInform |  WorkActivities | -3.3335 | 0.00097716 |
|  ControlPrecision  |  Abilities  | -3.3051 | 0.0010773 |
|  OperationandControl  |  Skills  | -3.2087 | 0.0014938 |
|  RepairingandMaintainingMechanicalEquipment  |  WorkActivities | -3.1978 | 0.0015492 |
|  Physics  |  Knowledge  | -3.1233 | 0.0019822 |
|  OutdoorsExposedtoWeather  |  WorkContext  | -3.1047 | 0.0021063 |
|  WearSpecializedProtectiveorSafetyEquipmentsuchasBreathingApparat |  WorkContext  | -3.0452 | 0.002554 |
|  TechnologyDesign  |  Skills  | -3.0194 | 0.0027741 |
|  ExposedtoWholeBodyVibration  |  WorkContext  | -2.9212 | 0.0037804 |
|  Repairing  |  Skills  | -2.8776 | 0.0043262 |
|  ExtremelyBrightorInadequateLighting  |  WorkContext  | -2.8622 | 0.0045359 |
|  VeryHotorColdTemperatures  |  WorkContext  | -2.8092 | 0.0053277 |
|  Investigative  |  Interests  | -2.7955 | 0.0055527 |
|  EvaluatingInformationtoDetermineCompliancewithStandards  |  WorkActivities | -2.573 | 0.010613 |
|  EquipmentMaintenance  |  Skills  | -2.5625 | 0.010934 |
|  |  |  |  |
|   |  |  |  |
| **Brain health - 39 items** |  |  |  |
| **Positive** |  |  |  |
|  AnalyticalThinking  |  WorkStyles  | 4.0766 | 6.01E-05 |
|  InformationOrdering  |  Abilities  | 3.9901 | 8.50E-05 |
|  AchievementEffort  |  WorkStyles  | 3.9348 | 0.00010586 |
|  IdentifyingObjectsActionsandEvents  |  WorkActivities | 3.8641 | 0.00013957 |
|  Support  |  WorkValues  | 3.7927 | 0.00018378 |
|  SystemsAnalysis  |  Skills  | 3.6278 | 0.0003415 |
|  Mathematics  |  Knowledge  | 3.5921 | 0.00038941 |
|  CriticalThinking  |  Skills  | 3.5737 | 0.00041658 |
|  MonitorProcessesMaterialsorSurroundings  |  WorkActivities | 3.4841 | 0.00057573 |
|  ComplexProblemSolving  |  Skills  | 3.4362 | 0.00068262 |
|  AnalyzingDataorInformation  |  WorkActivities | 3.4225 | 0.00071629 |
|  WorkingConditions  |  WorkValues  | 3.4015 | 0.0007712 |
|  InteractingWithComputers  |  WorkActivities | 3.3678 | 0.00086753 |
|  EstimatingtheQuantifiableCharacteristicsofProductsEventsorInform |  WorkActivities | 3.3526 | 0.00091476 |
|  SystemsEvaluation  |  Skills  | 3.3042 | 0.0010805 |
|  Persistence  |  WorkStyles  | 3.2621 | 0.0012477 |
|  Initiative  |  WorkStyles  | 3.2076 | 0.0014994 |
|  Achievement  |  WorkValues  | 3.2025 | 0.0015248 |
|  JudgmentandDecisionMaking  |  Skills  | 3.2023 | 0.0015262 |
|  Recognition  |  WorkValues  | 3.1607 | 0.0017526 |
|  OperationsAnalysis  |  Skills  | 3.107 | 0.0020911 |
|  ProblemSensitivity  |  Abilities  | 3.0009 | 0.0029426 |
|  MakingDecisionsandSolvingProblems  |  WorkActivities | 2.9998 | 0.0029533 |
|  ConsequenceofError  |  WorkContext  | 2.9904 | 0.0030427 |
|  ManagementofFinancialResources  |  Skills  | 2.943 | 0.0035322 |
|  NumberFacility  |  Abilities  | 2.9319 | 0.0036565 |
|  ResponsibilityforOutcomesandResults  |  WorkContext  | 2.9271 | 0.0037121 |
|  DeductiveReasoning  |  Abilities  | 2.9169 | 0.0038308 |
|  OrganizingPlanningandPrioritizingWork  |  WorkActivities | 2.8996 | 0.0040426 |
|  Monitoring  |  Skills  | 2.8633 | 0.0045207 |
|  GettingInformation  |  WorkActivities | 2.8295 | 0.0050109 |
|  PerceptualSpeed  |  Abilities  | 2.8008 | 0.0054654 |
|  MathematicalReasoning  |  Abilities  | 2.78 | 0.0058168 |
|  Mathematics\_1  |  Skills  | 2.7354 | 0.006642 |
|  AttentiontoDetail  |  WorkStyles  | 2.7328 | 0.0066923 |
|  ManagementofMaterialResources  |  Skills  | 2.7117 | 0.0071224 |
|  Leadership  |  WorkStyles  | 2.7043 | 0.0072773 |
| **Negative** |  |  |  |
|  ForeignLanguage  |  Knowledge  | -2.7505 | 0.0063503 |
|  |  |  |  |
|   |  |  |  |
| **NART - 8 items** |  |  |  |
| **Positive** |  |  |  |
|  Artistic  |  Interests  | 5.1803 | 4.33E-07 |
|  FineArts  |  Knowledge  | 4.5252 | 9.04E-06 |
|  Innovation  |  WorkStyles  | 4.1979 | 3.66E-05 |
|  ThinkingCreatively  |  WorkActivities | 3.6928 | 0.00026824 |
|  Originality  |  Abilities  | 3.5274 | 0.0004928 |
| **Negative** |  |  |  |
|  Telephone  |  WorkContext  | -3.6853 | 0.00027582 |
|  Integrity  |  WorkStyles  | -3.4688 | 0.00060787 |

**Supplementary analysis**: Mass-univariate regression models were run with a substitution of the composite brain health score by individual regional thickness. The regression models were

 **occ**(i) = [**thickness (**j**) education IQ gender age 1**] **β** + **ε**

i=1…246, j=1…68

where *i* indexes occupational items and *j* indexes cortical regions.

 There are 68 regions and 68 mass-univariate regression models were run. FDR correction was performed for the number of items in reach regression model, but *not*  for the number of regions. Only three regions were located with as many occupational items, their associations with select items are listed in table S2 below.

S2: Association between regional thickness and occupational items, after adjusting for age, gender, IQ, and education. Listed are associations that are significant at Q<0.05 (adjusted for 246 occupational items). The p-values listed are uncorrected.

|  |
| --- |
|  |
| **Item**  | **Domain**  | **T** | **p** |
| Region: lh-isthmuscingulate |
|  Social  |  Interests  | -3.9061 | 0.00011849 |
| Region: rh-inferiortemporal |
| ConsequenceofError | WorkContext | 3.9028 | 0.00012003 |
| Region: rh-parahippocampal |
| SocialOrientation  |  WorkStyles  | -3.8107 | 0.00017156 |