**Syntax for analysis of Scientific Instruments data set**

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Git repository at <https://github.com/sciseim/ScientificInstruments_MS>

**Code for analysis of survey 1**

**Supplementary Table 2**

NPAR TESTS

/WILCOXON=Ref\_peer\_reviewed\_j Ref\_star\_scientist Ref\_high\_impact WITH Ref\_firm\_coauthor

Ref\_firm\_coauthor Ref\_firm\_coauthor (PAIRED)

/MISSING ANALYSIS.

**Supplementary Table 4** (entrepreneurial)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY ICA\_none(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Supplementary Table 4** (geography)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY US1EU0(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS

**Supplementary Table 4** (government)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Gov\_dummy(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Supplementary Table 4** (patents)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Patents(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Supplementary Table 5** (scientific fields)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 2)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(4 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(4 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(4 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(5 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(5 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(6 7)

/MISSING ANALYSIS.

**Supplementary Table 6** (age)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Age\_dummy1977(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Supplementary Table 6** (budget)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Budget\_dummy(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Supplementary Table 6** (impact factor)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY impact\_dummy7(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Supplementary Table 7** (Employment Status)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 2)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(2 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(2 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(2 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(3 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(3 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(4 5)

/MISSING ANALYSIS.

**Supplementary Table 8** (response half)

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Response\_half(0 1)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Professor\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Assocprofessor\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Assistprofessor\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Postdoc\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY PhDstudent\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

**Code for analysis for survey 2**

**Supplementary Table 9 (reliable)**

T-TEST PAIRS=Reliable\_peerreview Reliable\_starscientist Reliable\_highimpact WITH

Reliable\_firmcoauthor Reliable\_firmcoauthor Reliable\_firmcoauthor (PAIRED)

/CRITERIA=CI(.9500)

/MISSING=ANALYSIS.

**Supplementary Table 10 (government)**

T-TEST GROUPS=Government\_dummy(0 1)

/MISSING=ANALYSIS

/VARIABLES=Reliable\_firmcoauthor

/CRITERIA=CI(.95).

**Supplementary Table 10 (US vs. EU)**

T-TEST GROUPS=US\_EU(0 1)

/MISSING=ANALYSIS

/VARIABLES=Reliable\_firmcoauthor

/CRITERIA=CI(.95).

**Supplementary Table 10 (entrepreneurial)**

T-TEST GROUPS=Entrepreneurial(0 1)

/MISSING=ANALYSIS

/VARIABLES=Reliable\_firmcoauthor

/CRITERIA=CI(.95).

**Supplementary Table 11 (impact factor)**

T-TEST GROUPS=Highest\_impact\_factor(4)

/MISSING=ANALYSIS

/VARIABLES=Reliable\_firmcoauthor

/CRITERIA=CI(.95).

T-TEST GROUPS=Highest\_impact\_factor(5)

/MISSING=ANALYSIS

/VARIABLES=Reliable\_firmcoauthor

/CRITERIA=CI(.95).

**Pure syntax survey 1**

NPAR TESTS

/WILCOXON=Ref\_peer\_reviewed\_j Ref\_star\_scientist Ref\_high\_impact WITH Ref\_firm\_coauthor

Ref\_firm\_coauthor Ref\_firm\_coauthor (PAIRED)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY ICA\_none(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY US1EU0(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Gov\_dummy(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Patents(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 2)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(1 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(2 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(3 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(4 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(4 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(4 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(5 6)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(5 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Field(6 7)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Age\_dummy1977(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Budget\_dummy(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY impact\_dummy7(0 1)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 2)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(1 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(2 3)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(2 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(2 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(3 4)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(3 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Employment(4 5)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Response\_half(0 1)

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Professor\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Assocprofessor\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Assistprofessor\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY Postdoc\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.

NPAR TESTS

/M-W= Ref\_firm\_coauthor BY PhDstudent\_responsehalf(1 2)

/STATISTICS=DESCRIPTIVES

/MISSING ANALYSIS.