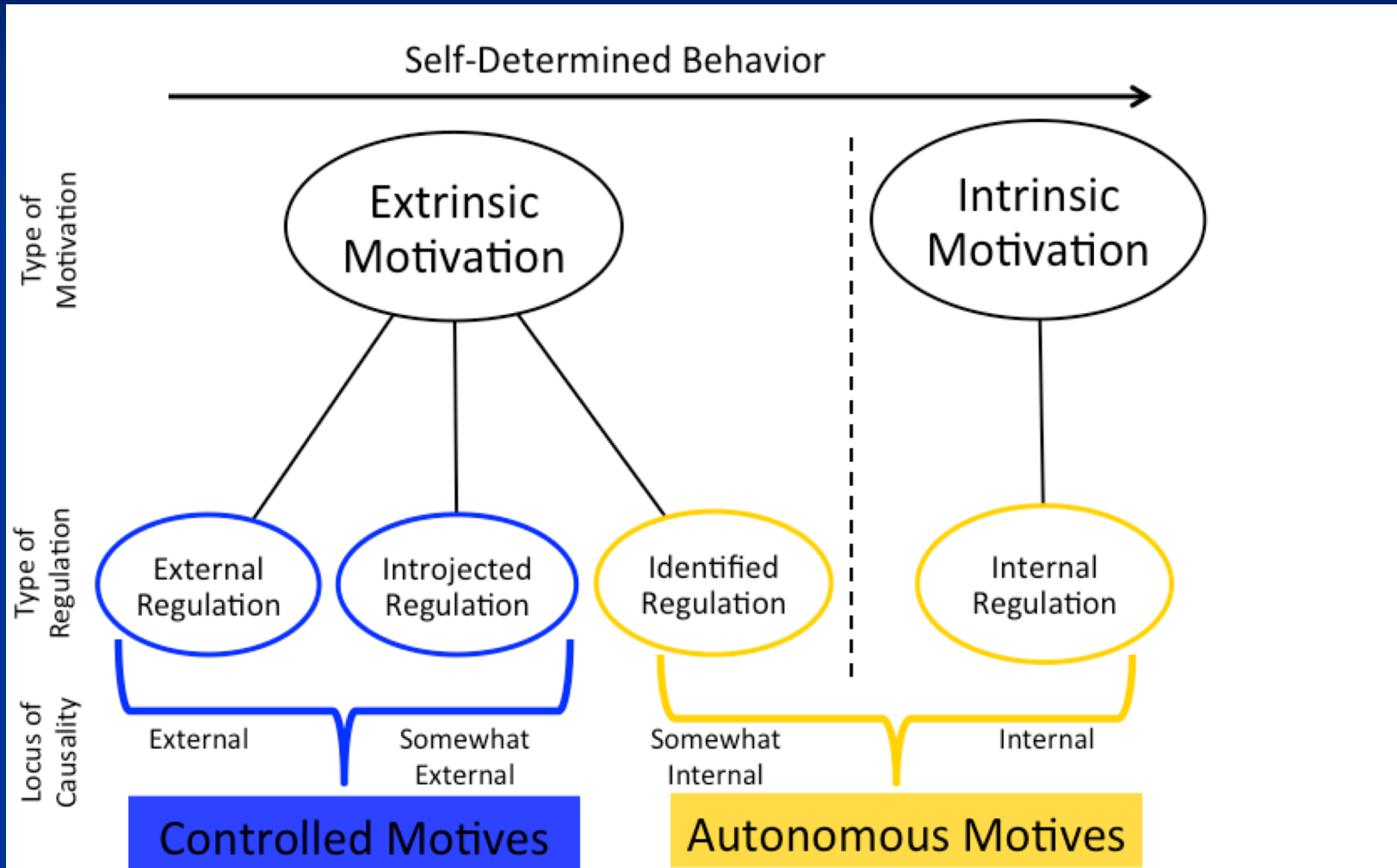


A Self-Determination Theory Approach to Understanding Motivational Profiles: Links to Academic Emotions and Substance Use

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Self-Determination Theory



Adapted from Ryan & Deci (2000)

A Person-Centered Approach

- Examines the effects of different *combinations of motives* (i.e., **motivational profiles**)
- Provides a critical test of SDT's **qualitative perspective** (i.e., ratio of autonomous to controlled motives is key) versus a more **quantitative perspective** (i.e., more motivation is better)

The Current Research

Motivational profiles and....

- Anxiety

- Supports **qualitative** perspective (i.e., highest anxiety among *controlled* profiles)

- Substance Use

- No person-centered research to date

- Evidence for **both quantitative and qualitative** perspectives in variable-centered studies

Study 1: Method

- 270 9th & 10th graders attending public high schools completed anonymous surveys including:

- **Intrinsic, Identified, Introjected, External Motives**

Academic Self-Regulation Scale (Vansteenkiste et al., 2009)

- **Class-Related Anxiety**

Achievement Emotions Questionnaire (Pekrun et al., 2005)

- **Alcohol Use and Drinking Motives**

Drinking Motives Questionnaire: Social, Conformity, Enhancement, Coping (Cooper, 1994)

Cluster Analysis

- Inputs: Scores from ASRS

intrinsic, identified, introjected, external

- 2-Step Procedure: Hierarchical (Ward's) followed by nonhierarchical (k-means)

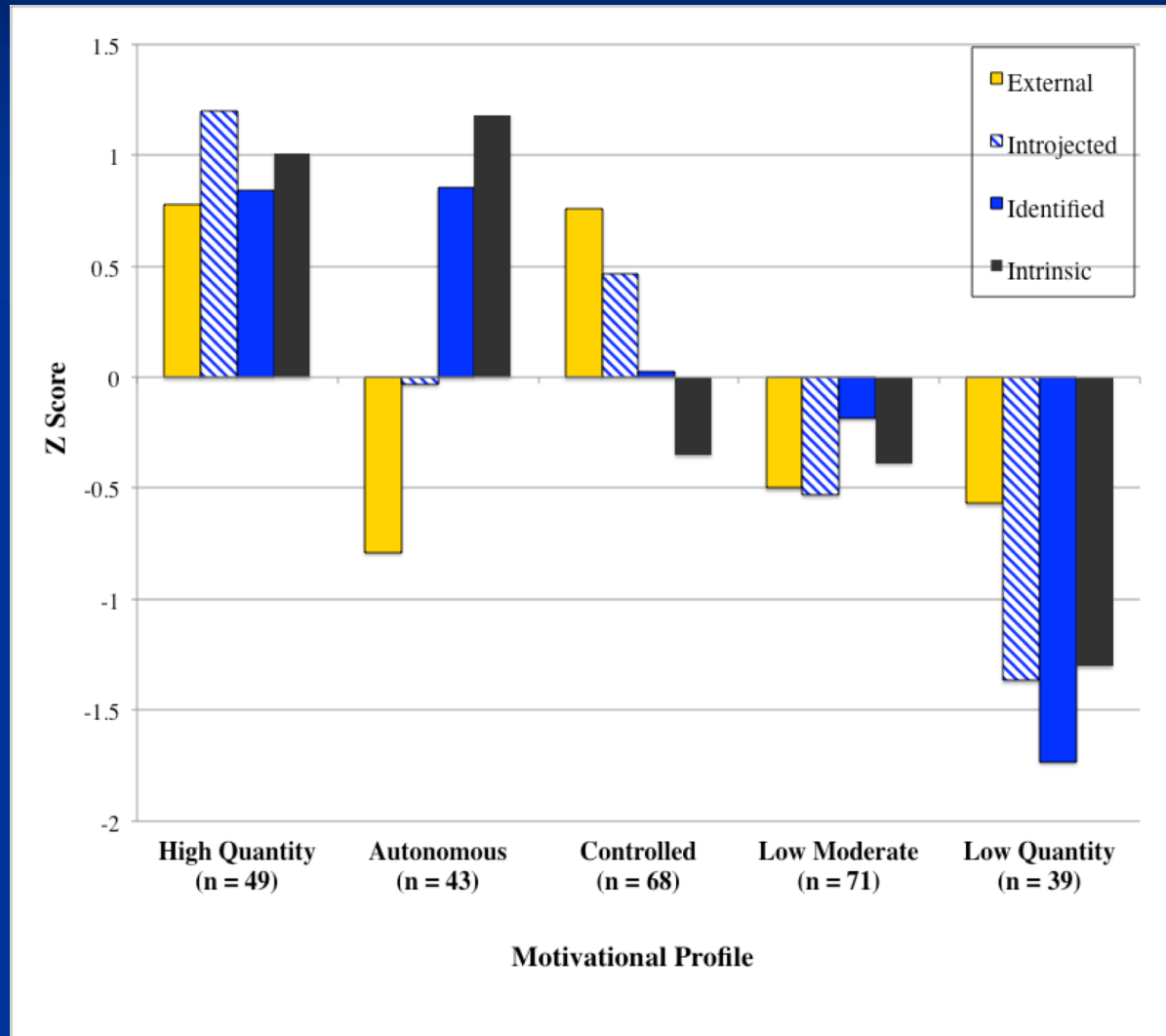
- 5-Group Solution Selected

Explained sufficient variance (47%-73%)

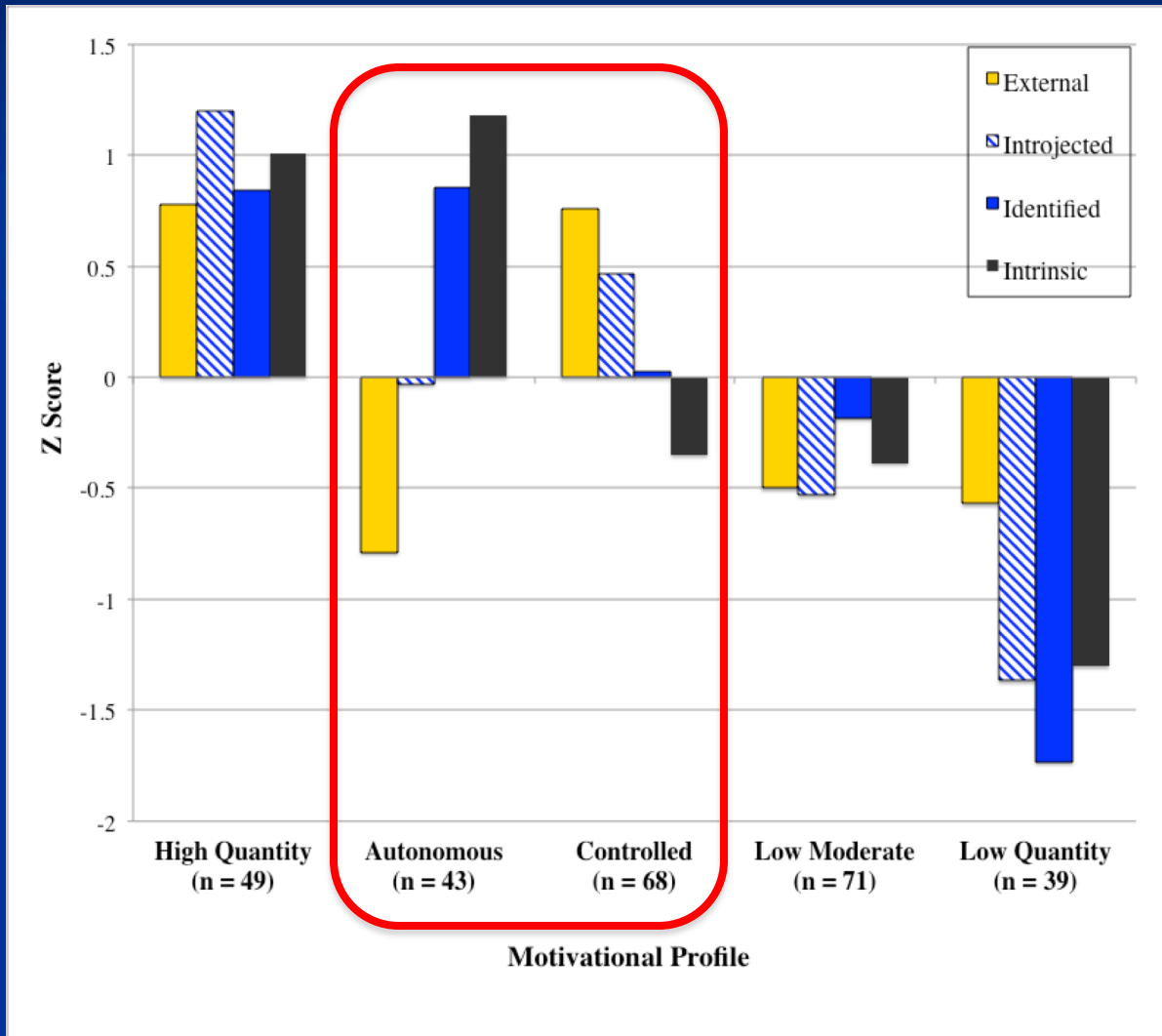
Stable and replicable ($\alpha = .67$)

Largely consistent with extant theory and research

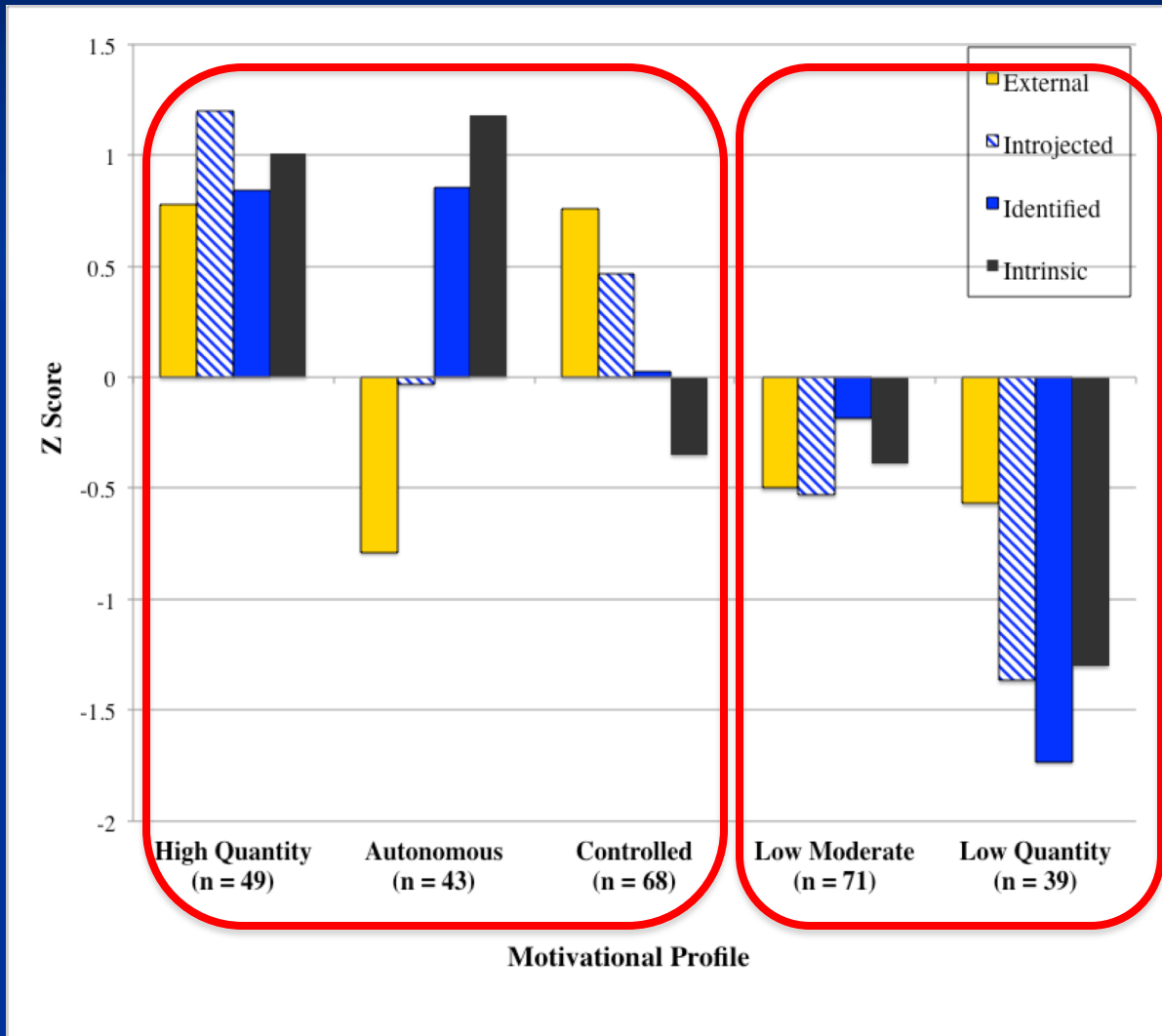
Study 1: Cluster Solution



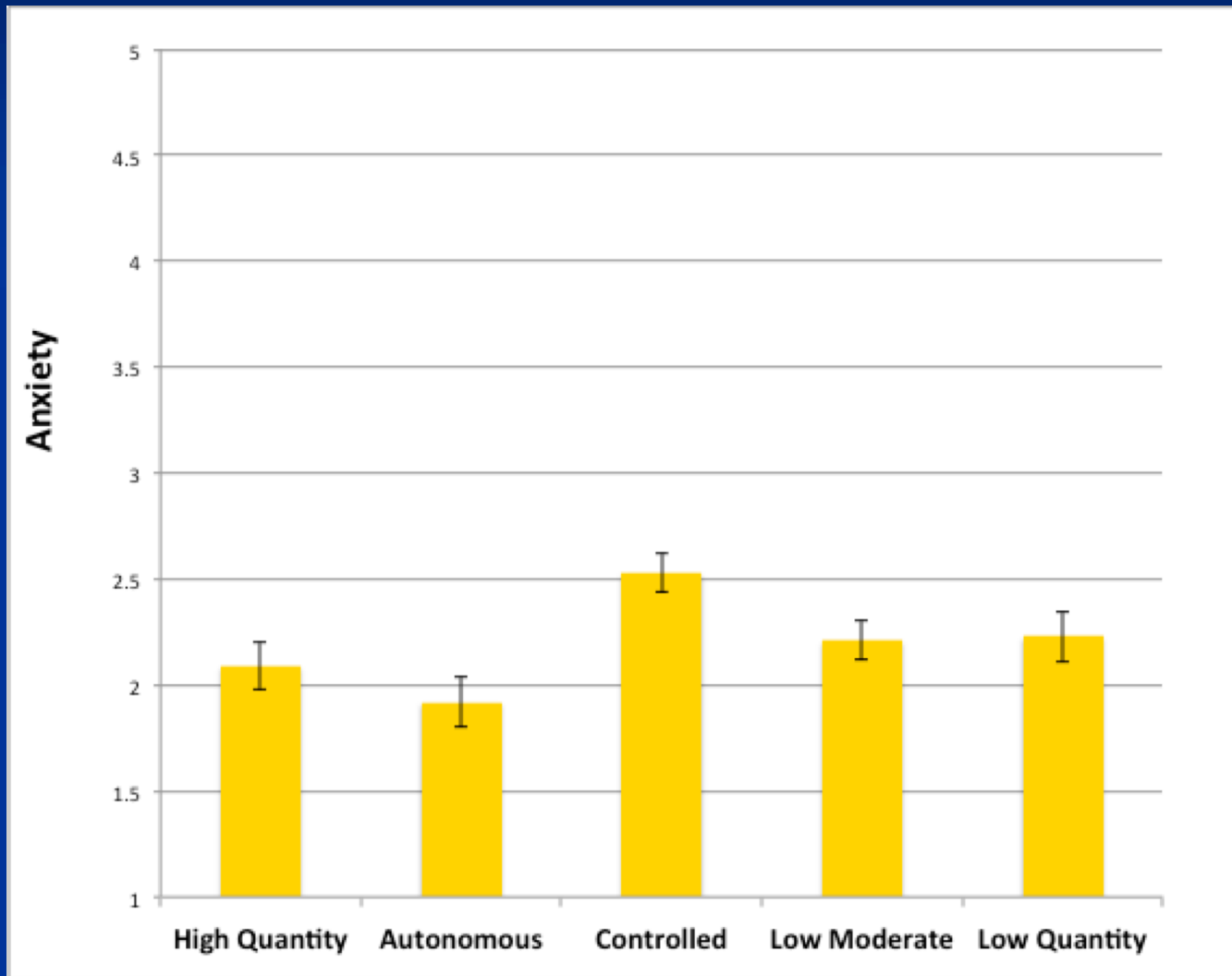
Quality Comparison



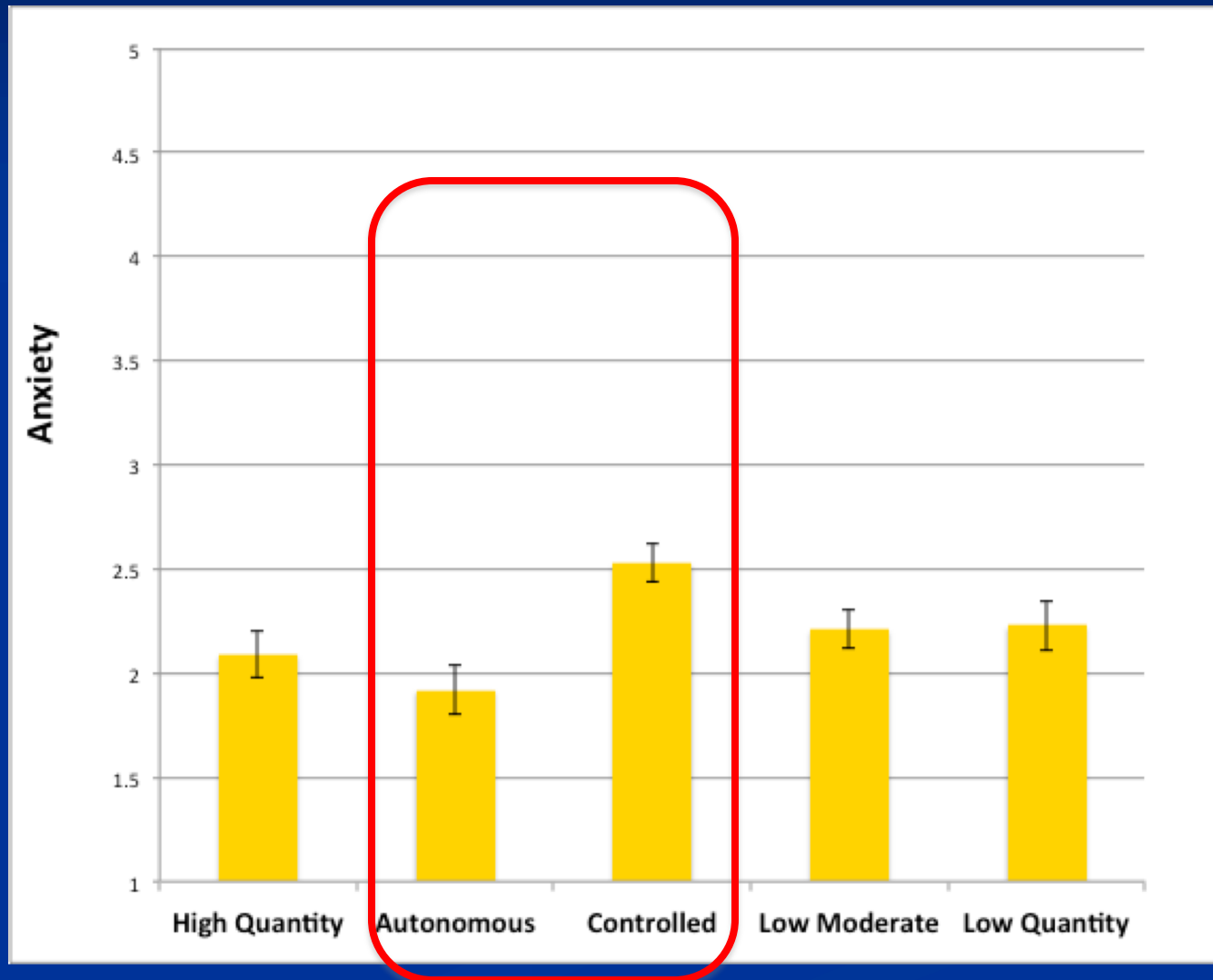
Quantity Comparison



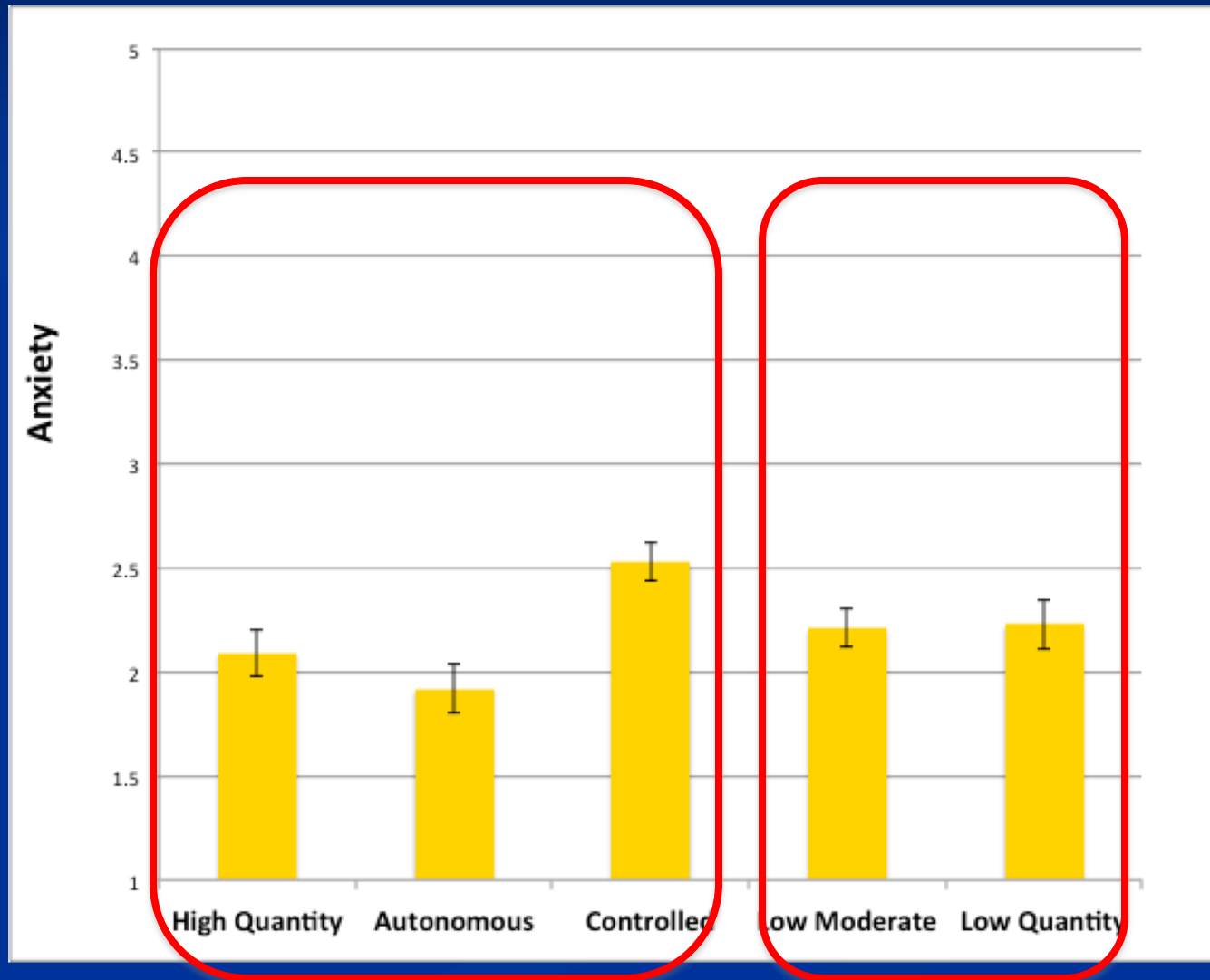
Study 1: Anxiety



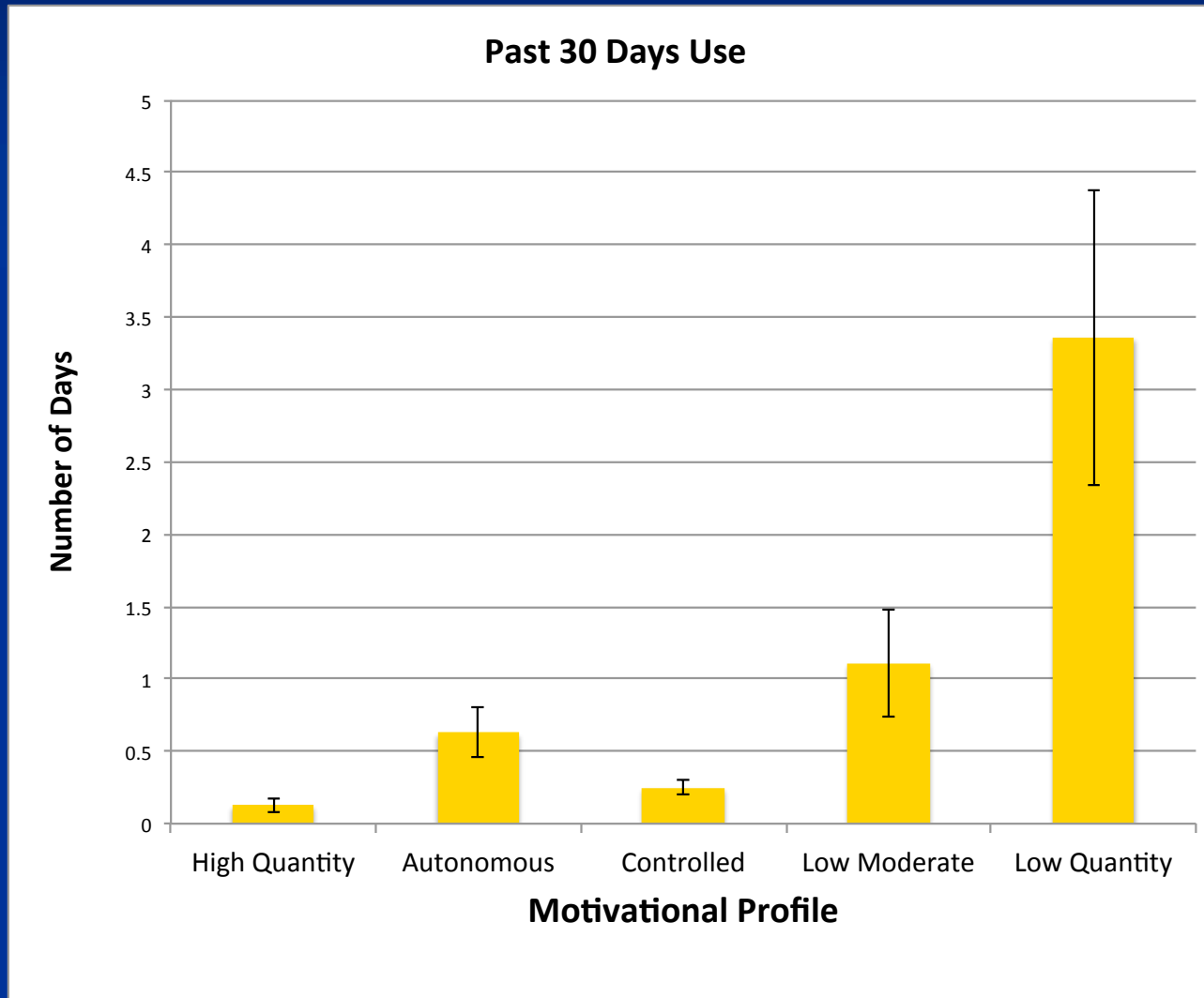
Anxiety: Quality Comparison



Anxiety: Quantity Comparison



Study 1: Alcohol Use



Study 1: Key Findings

- **Qualitative Perspective:** Supported by **Emotions** data
- Anxiety highest in Controlled profile, lowest in Autonomous profile
- **Quantitative Perspective:** Supported by **Alcohol use** data
- Heaviest use in Low Quantity and Low Moderate profiles

Study 2

- 208 undergraduates from Reed College

- “Life of the mind” approach

- Liberal attitude toward marijuana use

- Anonymous online surveys including:

- Intrinsic, Identified, Introjected, External Regulation

- Academic Self-Regulation Scale (Vansteenkiste et al., 2009)

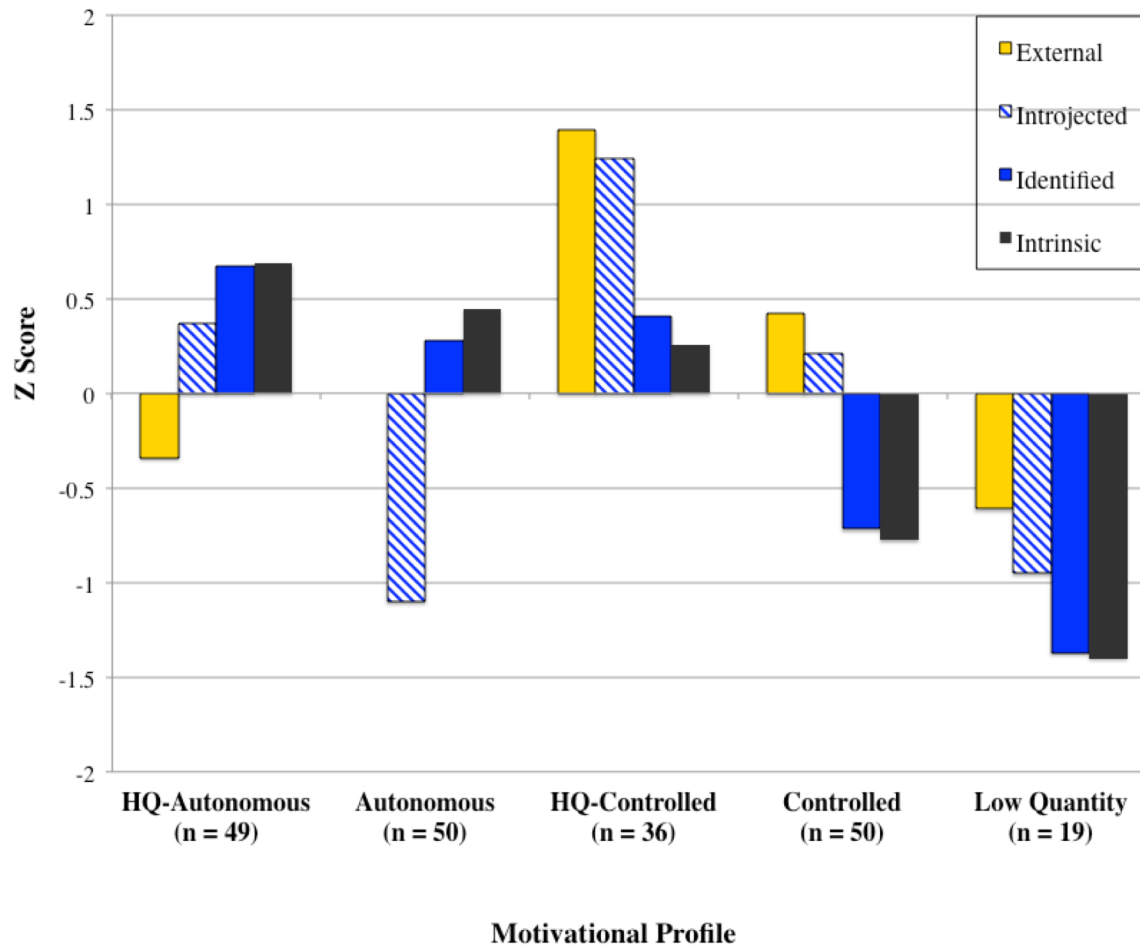
- Learning & Class-Related Anxiety

- Achievement Emotions Questionnaire (Pekrun et al., 2005)

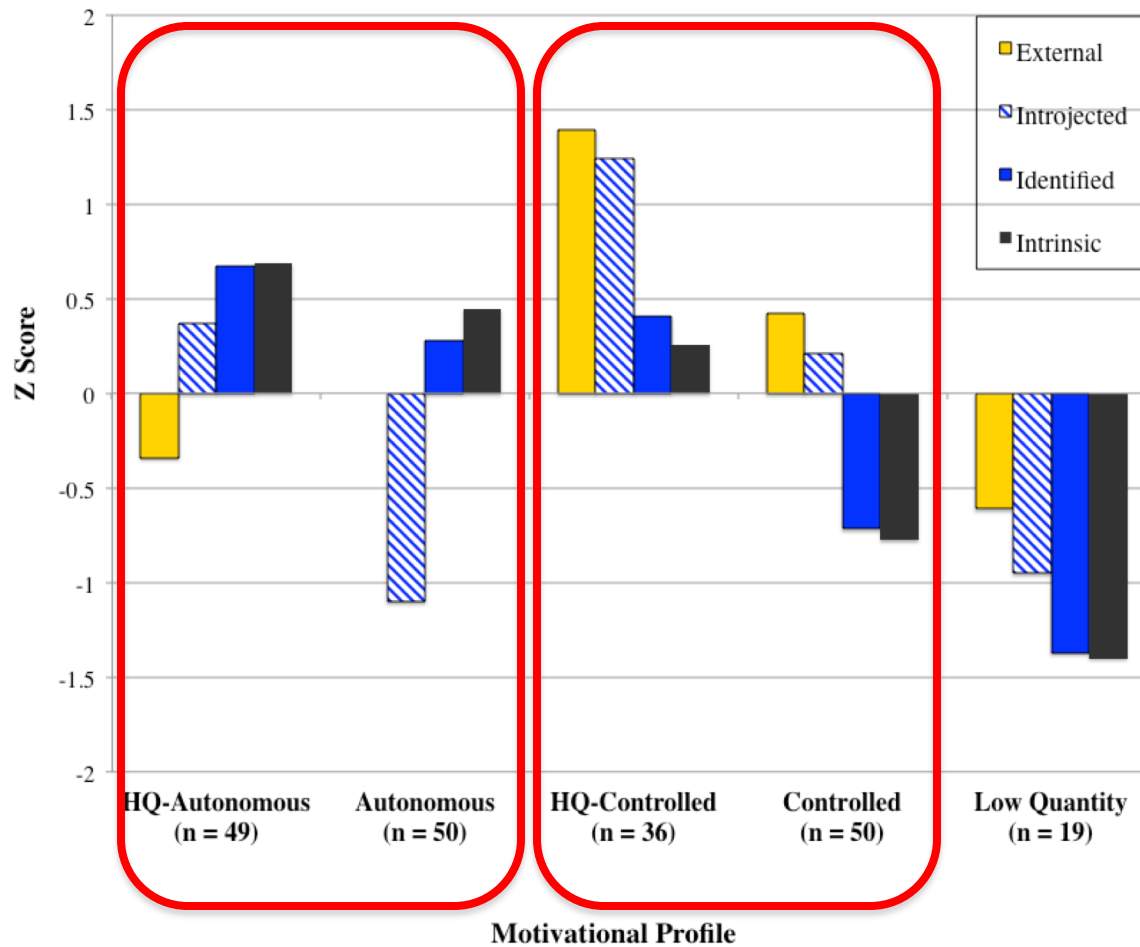
- Marijuana Use and Marijuana Motives

- Social, Conformity, Enhancement, Coping (Simons et al., 1998)

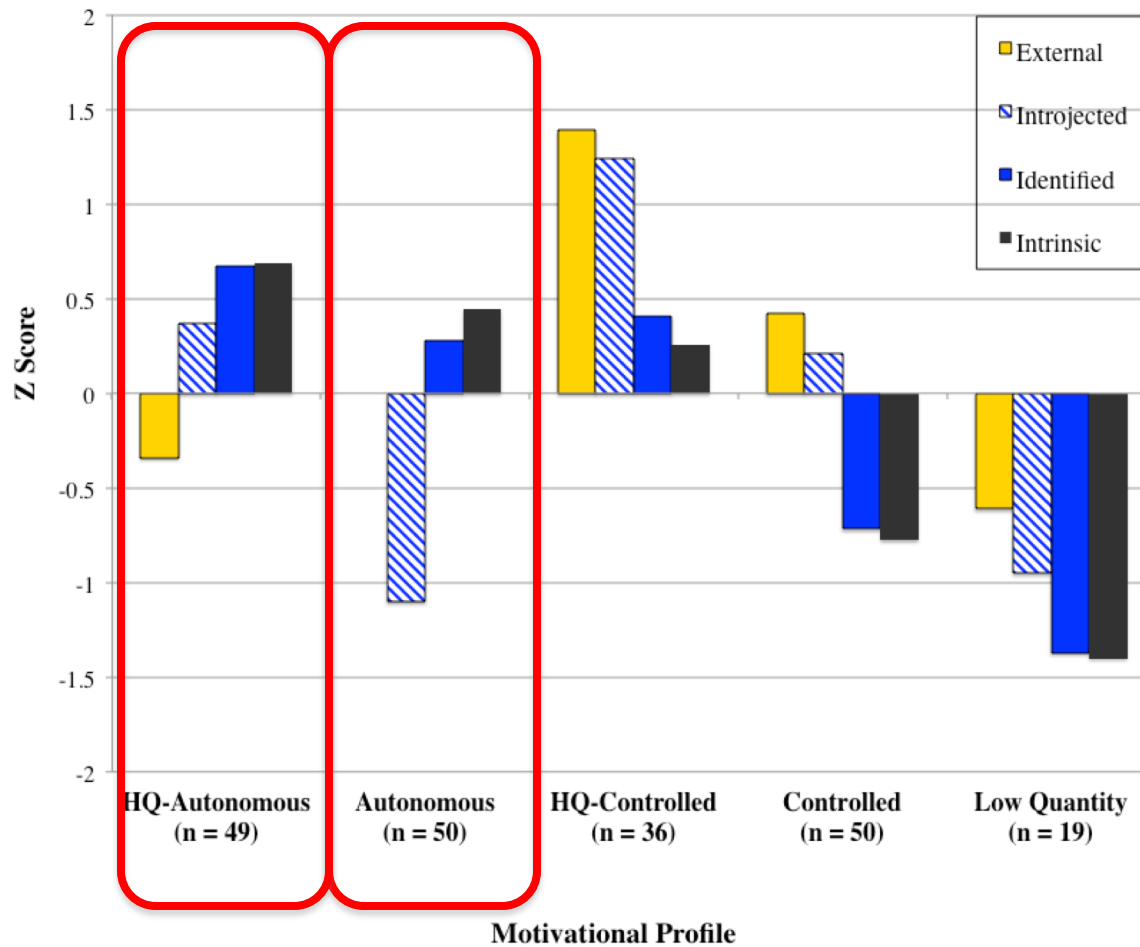
Study 2: Cluster Solution



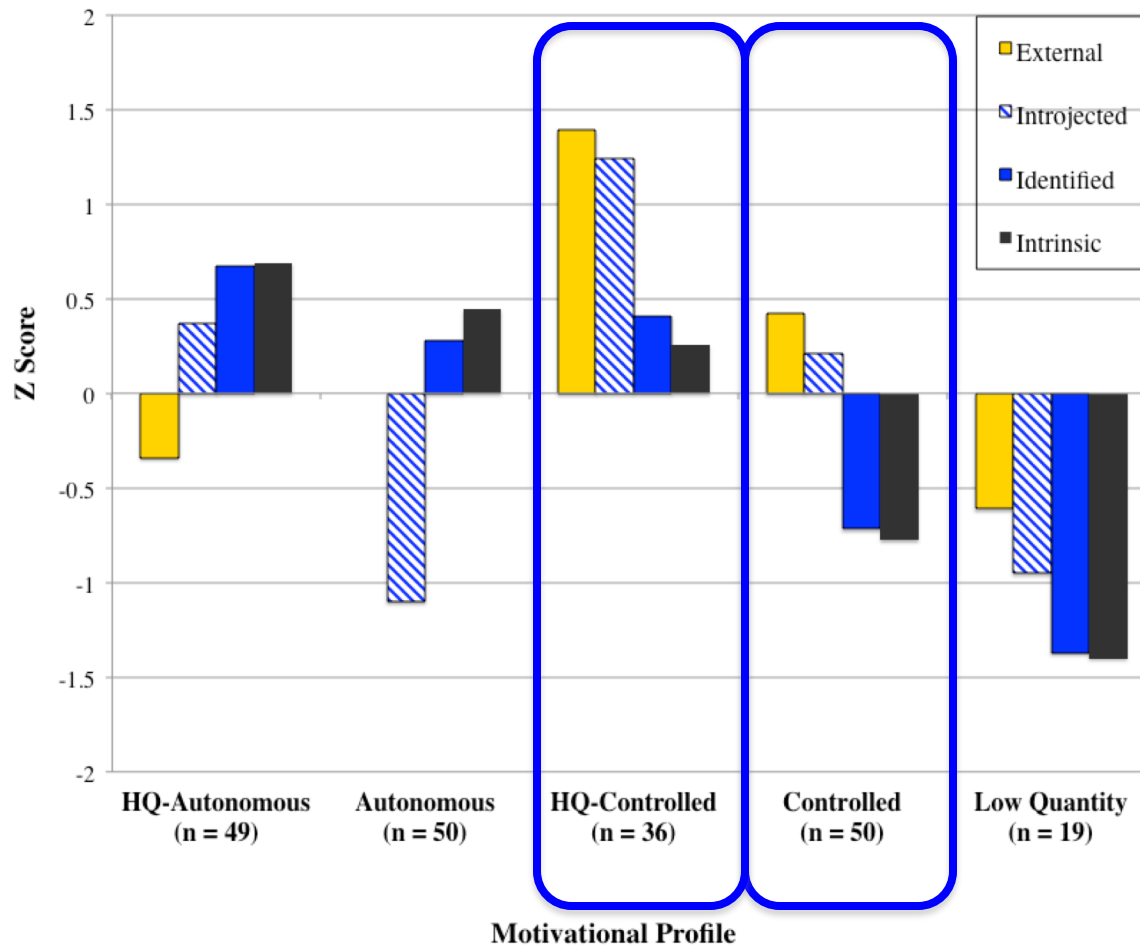
Quality Comparison



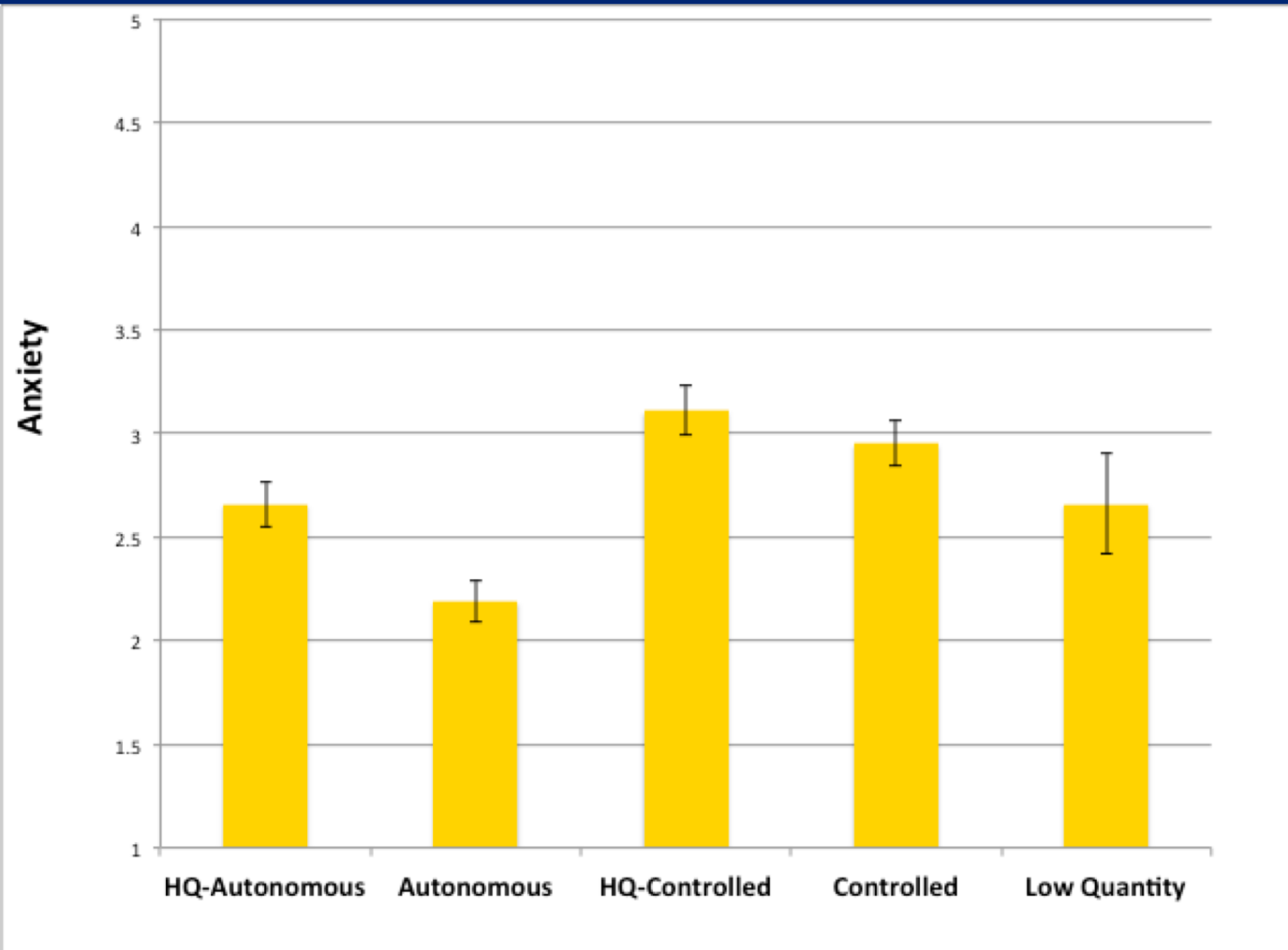
Quantity Comparison



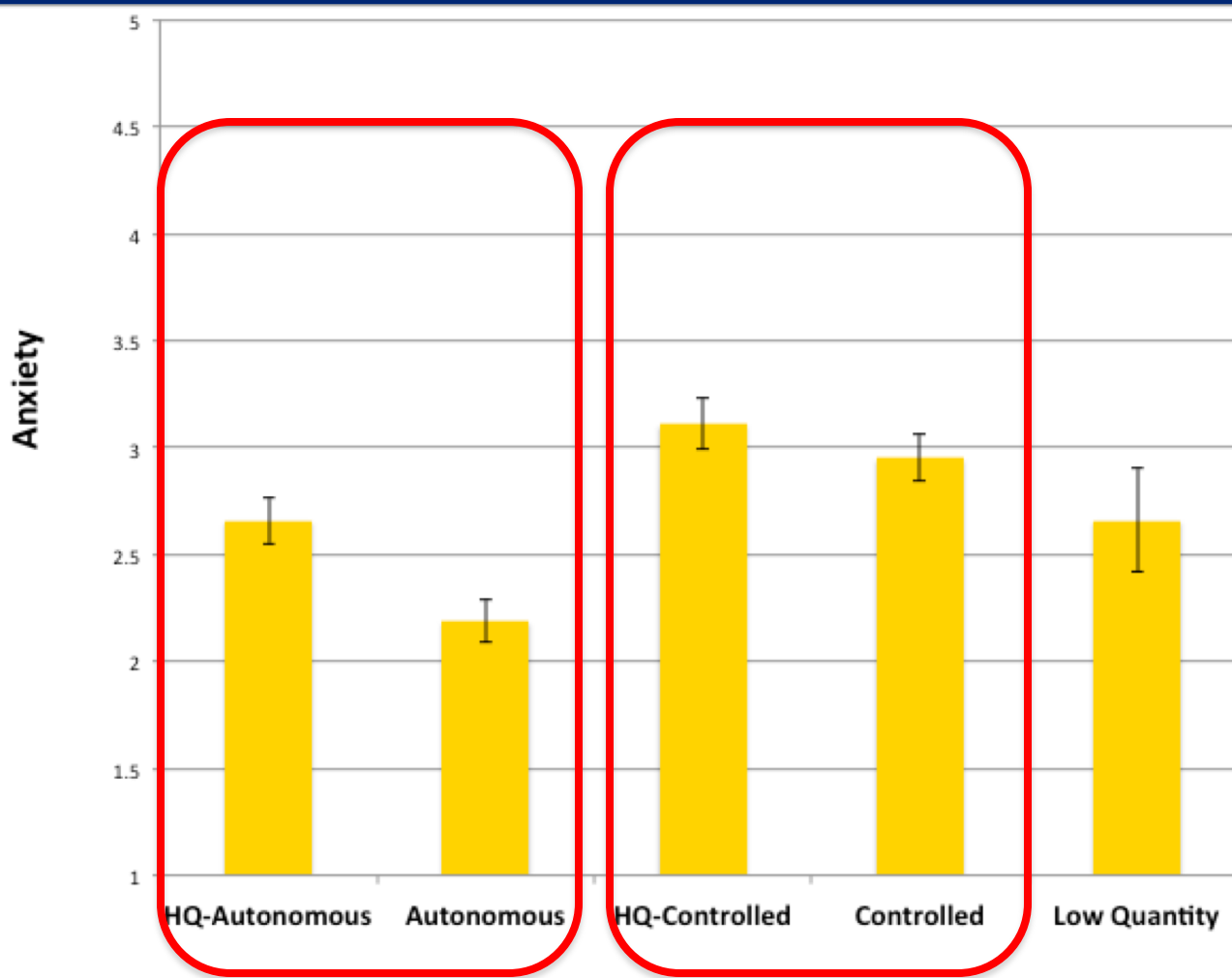
Quantity Comparison



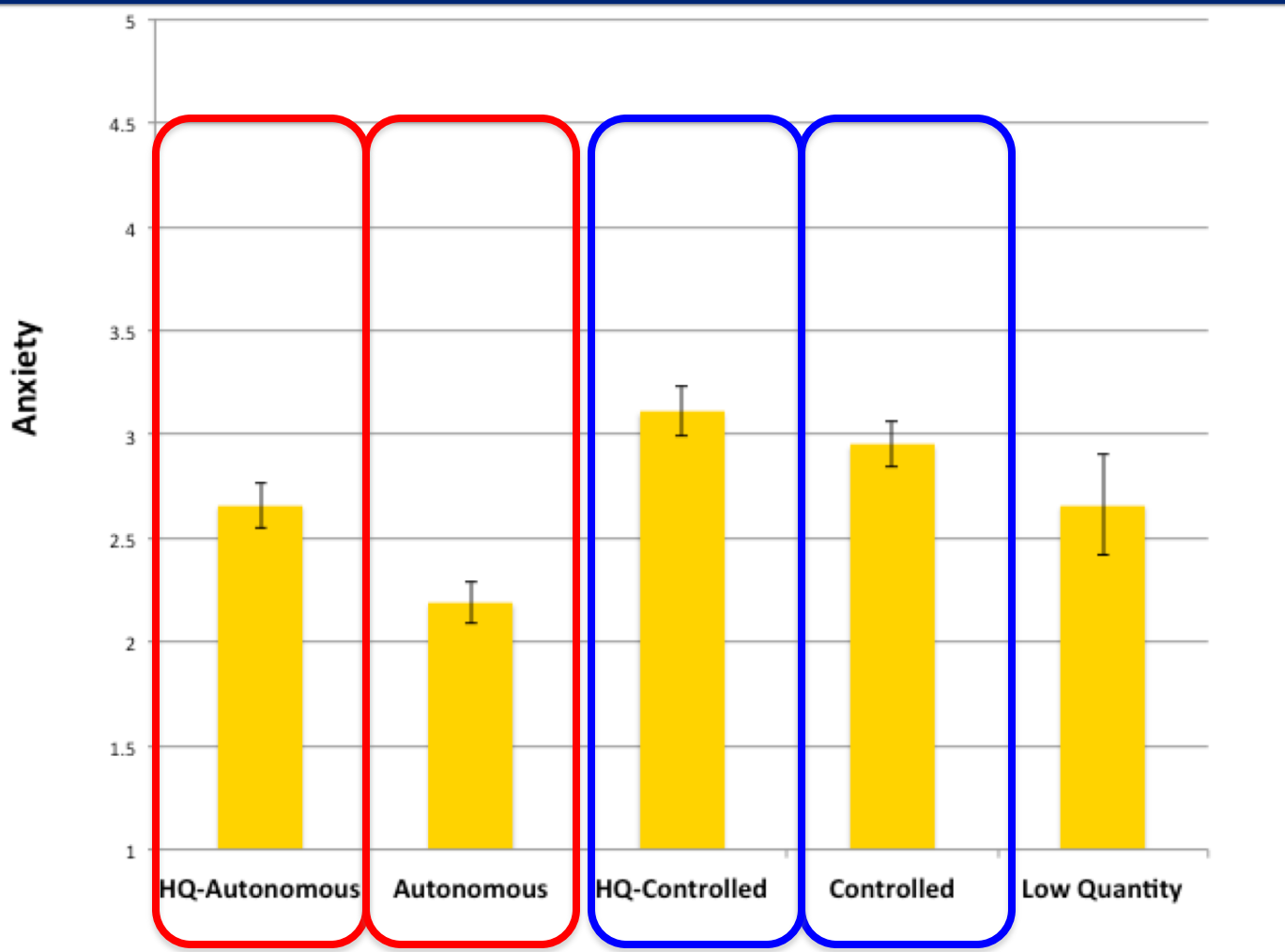
Study 2: Anxiety



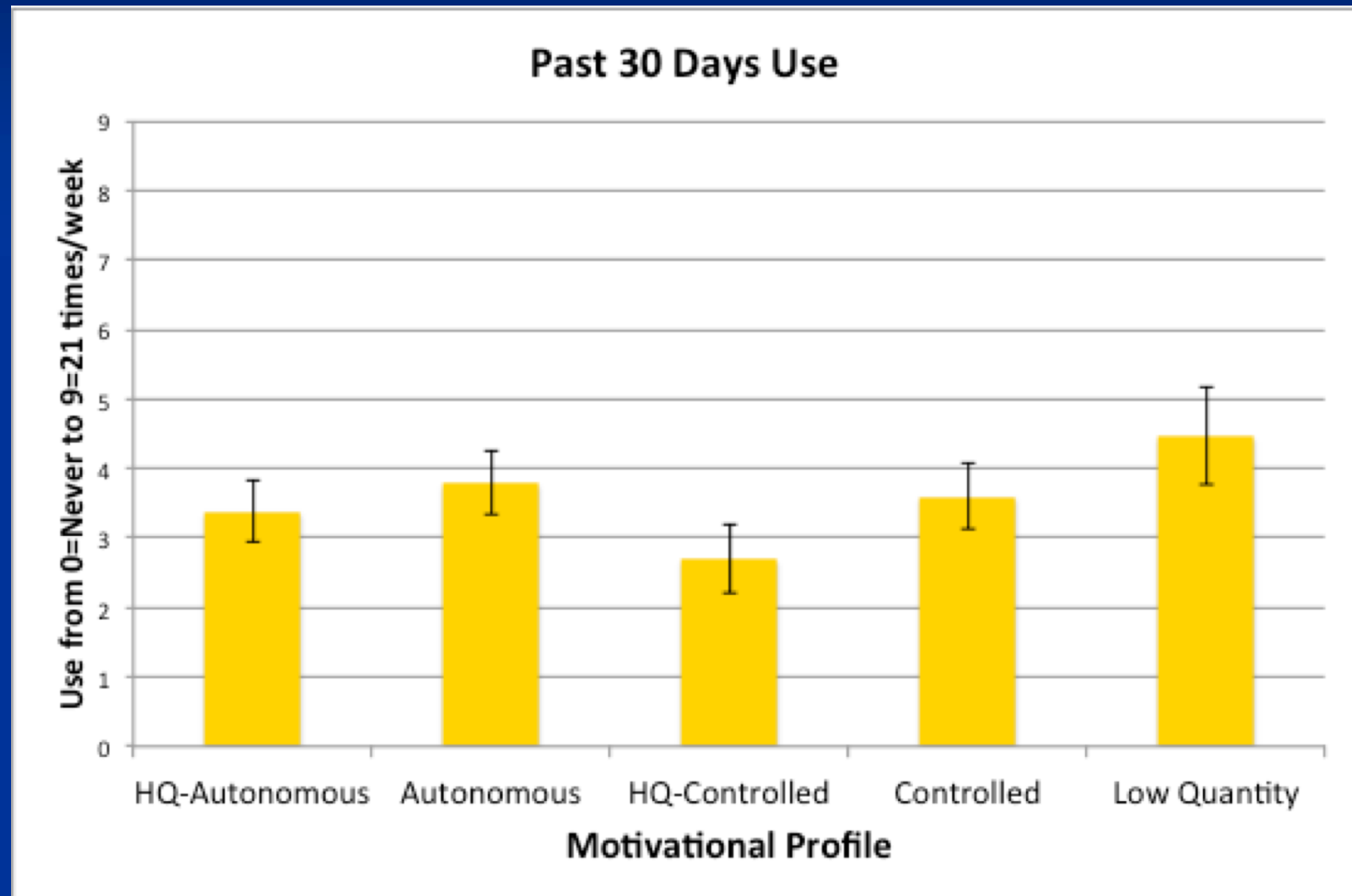
Quality Comparison



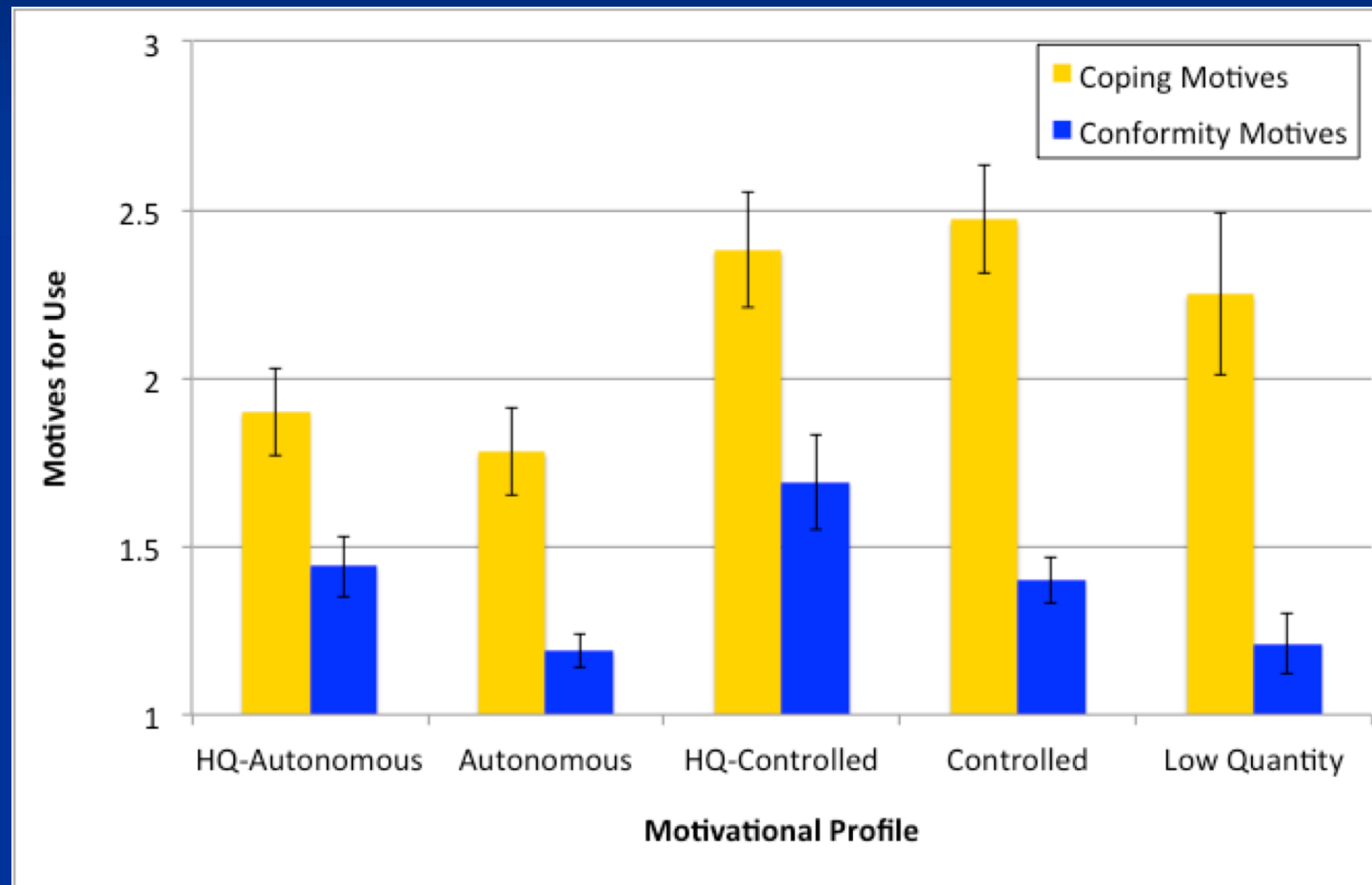
Quantity Comparisons



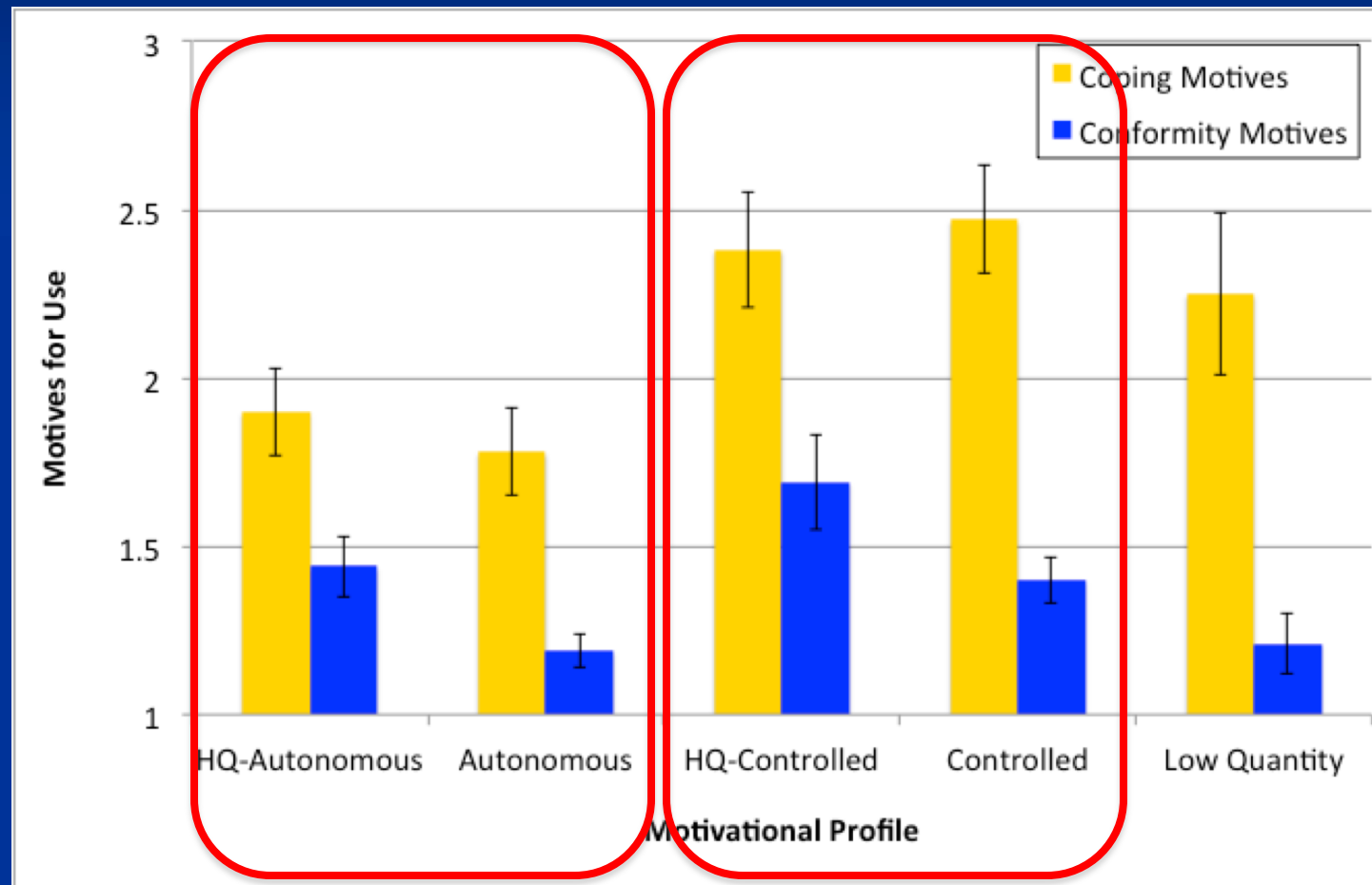
Study 2: Marijuana Use



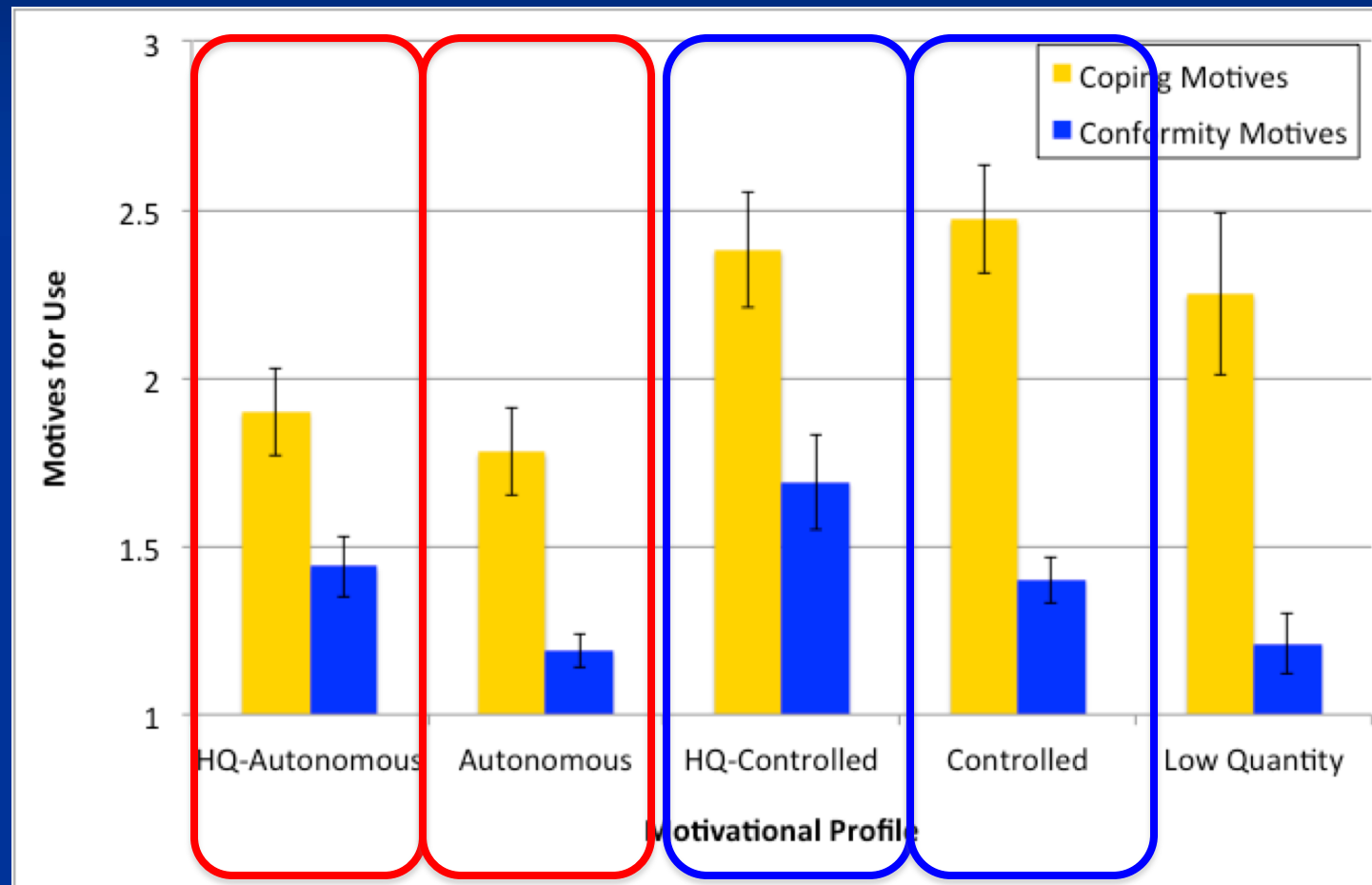
Study 2: Use Motives



Quality Comparison



Quantity Comparison



Study 2: Key Findings

- **Qualitative Perspective:** Supported by **Emotions** data and **Marijuana Motives** data
 - Anxiety and Coping Motives highest in two Controlled profiles, lowest in Autonomous profiles
 - Conformity motives lowest in Autonomous profile

Conclusions

- Anxiety Data: Support Qualitative Perspective
- Substance Use Data: Support both Qualitative (Study 2) and Quantitative (Study 1) Perspectives
 - Different Age Groups: Controlled motives more functional in high school than college?
 - Different Cultural Norms: Controlled motives more functional when substance use is non-normative?