Entrepreneurial Positive Future Thinking & Dot-Com Bubble Burst

Pleasurable Future Now, Painful Reality Later? Entrepreneurial Positive Future Thinking and Future Stock Price Crash Risk: Evidence from the U.S. Dot-Com Bubble Burst, 1995-2001

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Communication Purpose Only

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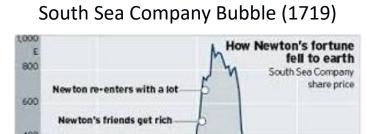
Research Motivation – *Different Era, Historical Documents*

Newton

exits broke

1721

'Positive fantasy about the future' appears to prevail ex ante when market bubbles are accumulated and I choose the U.S. Dot-Com Bubble era due to data availability.



Newton exits happy

Newton invests a bit

Mississippi Bubble (1720)
Japanese Bubble Economy (1989)
The Neuer Markt in Germany (2000)
Korean IT Bubble (2000)

U.S. Dot-Com Bubble Burst (2000)



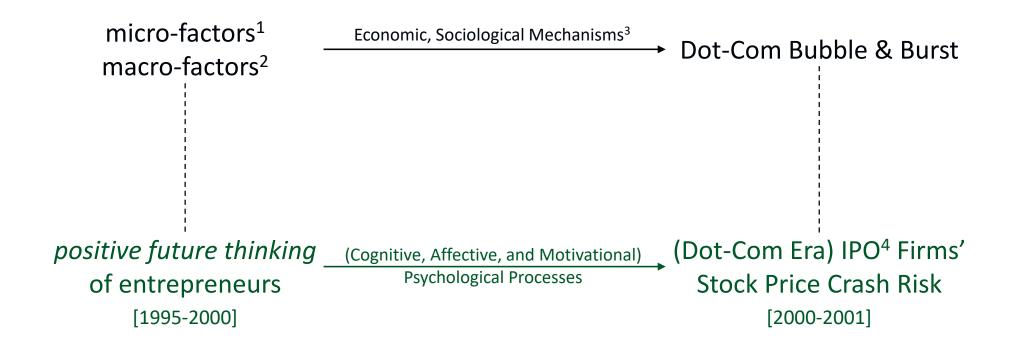


"I can calculate the motions of the planets, but I cannot calculate the *madness* of men." – Sir. Issac Newton (1642-1727) [Italics and **bold** are added]

The modern psychology may help to the frustration of one of the fathers in classical physics? I may say 'yes' and use an index that invented by Sevincer et al. [2014].

Research Question – What Drove and Burst the Dot-Com Bubble?

I add an explanation to why U.S. tech bubble (burst) in 1995-2001 happened based the science of human motivation.



¹⁾ Herding behavior (e.g., Schiller 2000; Goonight & Green 2010); 2) Monetary Policy (e.g., Canova 2008); Fiscal policy (e.g., Kraay & Ventura 2005);

³⁾ Wall Street's moral hazards (McCullough 2018); Short-Sale Constraint (Hong & Stein 2001); 4) Initial Public Offering

Theoretical Development – Positive Fantasy about the Future

Oettingen and colleagues established three mechanisms of 'positive thinking about future' based on the 30+ years of researches.

- ¶ Affective Mechanism: Energy-Sapping Effect (e.g., Kappes & Oettingen 2011)
- ¶ Motivational Mechanism: Low Efforts by Mental Attainment (e.g., Kappes, Kappes, & Oettingen 2015)
- ¶ Cognitive Mechanism: Biased Information Acquisition (Kappes & Oettingen 2012)

The optimistic, feverish moods in the U.S. stock market between 1995 to 2000, reflected as a rhetorical evidence that "this time, indeed, things were different" filled in the minds and hearts of the Wall Street.

- "The dot-com bubble was a fantasy period when a lot of VCs actually didn't care if a business turned a profit, because it didn't need to." (McCullough 2018)
- ▶ The dot-com IPOs in 1995-2000 may reflect this climate in their 'going public' processes and must leave a trail in their corporate narratives: *IPO prospectuses*.

Research Design – Data & Sample

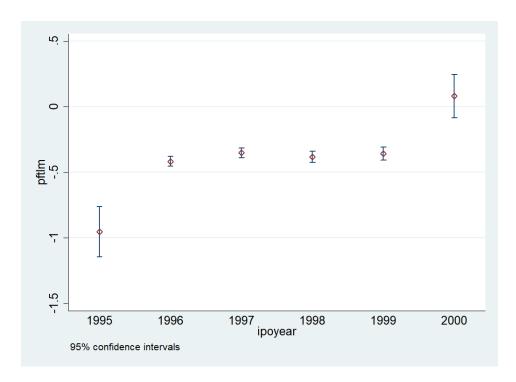
- 1. The initial sample includes all firm-years for which a IPO (Initial Public Offering) prospectus was filed with at least <50KB file size during the dot-com bubble period 1995-2000.
- X Note that I may add additional dot-com bubble period IPO firms due to the data provider's IPO dates (unknowable) misclassification in the WRDS (Wharton Research Data Services) database.
- 2. I combine the initial sample with weekly stock return data from the CRSP (Center for Research in Securities Price) and financial statement data from Compustat to construct 'crash risks'.
- 3. Specifically, for each IPO firm-year observation, I match weekly stock returns to the fiscal year if the last trading day of a calendar week falls within the 12-month period ending three months after the firm's fiscal year-end.
- 4. I then delete observations with nonpositive total assets, low-priced firms (fiscal year-end price lower than \$1), observations with fewer than 26 weeks of stock return data, and observations missing financial data used to construct the known determinants of crash risk.
- 5. The above procedure yields the sample of 2,524 firm-year observations for 7,012 unique firms.
- 6. I calculated the future stock price crash risks between 6 March 2000 and 2 March 2001, which is known as the dot-com bubble *burst* period.

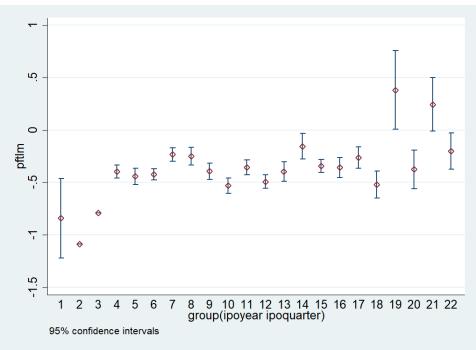
Research Design – *Measuring* Positive Future, Crash Risks, & Control Variables

- 1. Following Sevincer et al. [2014], I calculated the positive future thinking of dot-com IPO firms. Note that I used both the LIWC index and the Loughran-McDonald (LM) dictionary for emotional valence since the LM is the established, standard text analysis tool in business-context documents (see Loughran & McDonald 2011, 2014; Li 2010). The reported results are based on the LM dictionary for emotional valence and the LIWC dictionary for temporal valence. Though it is untabulated, the results were qualitatively similar when I used the LIWC dictionary for emotional valence.
- 2. Following Jin & Myers [2006] and Hutton, Marcus, & Tehranian [2009], I calculated the three different measures of firm-specific future stock price crash risks: (1) NCSKEW, (2) DUVOL, and (3) COUNT. The technical, mundane details are well-illustrated in the papers. If requested, I will specify the empirical models and provide the details for empirical replications.
- (1) NCSKEW: Intuitively, it means extremely negative stock returns beyond the market expectations.
- (2) DUVOL: Intuitively, it means the exposure to the hazardous volatility of the stock returns.
- (3) COUNT: Intuitively, it means the likelihood of extremely negative returns events during the year.
- 3. Consistent with prior studies in future stock price crash risk, I control for a set of known determinants of crash risk: market capitalization (LOGMV), profitability (ROA), accounting conservatism (MTB), financial leverage (LEV), past returns (RET), return volatility (SIGMA).

Main Results – 1. Entrepreneur's Positive Future Thinking Increased during the Dot-Com Bubble period

The number of observations by IPO year: 1995 (11), 1996 (741), 1997 (797), 1998 (485), 1999 (451), 2000 (39¹).





► Here, I show that the dot-com era (1995-2000) entrepreneurs exhibit the increasing trend of *positive thinking about the future*.

^{1) 2000.1.1.~2000.3.5.}

Main Results – 2. Descriptive Statistics (n=505)

Variable	Mean	Standard Deviation	Q1	Median	Q3
NCSKEW	0.121	1.079	-0.543	0.074	0.703
DUVOL	-0.085	0.408	-0.357	-0.080	0.130
COUNT	0.218	0.413	0.000	0.000	0.000
PFT	0.018	0.984	-0.644	-0.021	0.541
LOGMV	5.102	1.879	3.703	4.930	6.329
ROA	-0.108	0.400	-0.154	0.021	0.092
МТВ	5.933	9.448	1.118	2.713	7.947
LEV	0.466	0.279	0.236	0.449	0.650
RET	0.003	0.020	-0.012	0.000	0.015
SIGMA	0.116	0.047	0.081	0.109	0.145

The statistics correspond to those of prior studies in the crash risk literature (e.g., Kim, Li, and Zhang 2011a,b). * The mean *COUNT* from the logistic regression indicates that 21.8 percent of the firm-years in the sample experience at least one crash week.

Main Results – 3. Univariate Comparisons

	Positive Futu			
Crash Risk	(1) Low	(2) Medium	(3) High	p-value, H1>0 ¹
NCSKEW	-0.150	0.035	0.174	0.001
DUVOL	-0.185	0.006	-0.072	0.003
COUNT	0.161	0.274	0.221	0.081

Note: Reported p-values are obtained from the one-sided test (H0: (3)-(1)=0, H1: (3)-(1)>0).

I sort the sample into tercile groups by the positive future thinking index and present the mean values of the dot-com bubble burst period crash risk measures for each group.

I find that the differences in crash risk between the high- and low-PFT groups are statistically significant, consistent with the prediction that higher future crash risk is related to higher positive future thinking.

It is, however, noteworthy that these univariate comparisons do not consider other factors that affect the future crash risk.

Main Results – 4. The Impact of Entrepreneur's Positive Future Thinking on Future Crash Risk

Variable	(1) NCSKEW	(2) DUVOL	(3) COUNT
PFT	0.122**	0.048**	0.046**
LOGMV	0.075**	0.038**	0.010
ROA	-0.057	0.043	0.017
MTB	-0.008	-0.004	-0.001
LEV	-0.383**	-0.082	-0.025
RET	6.662**	2.389**	0.557
SIGMA	0.964	-0.781	-0.406
Industry Fixed Effect	Yes	Yes	Yes
Observations	505	505	462
D.V. Mean	0.12	-0.08	1.00

The coefficient of **PFT** is positive and significant in all columns, consistent with the prediction that dot-com IPO firms with higher positive future thinking have higher subsequent stock price crash risk even after controlling for the known determinants of crash risk.

The economic effect of *PFT* on crash risk is comparable to the determinants of crash risk identified by prior research. E.g., Hutton, Marcus, & Tehranian [2009; information opacity], Kim & Zhang [2016; principled reporting], Kim, Wang, & Zhang [2019, textual complexity].

Main Results – 4. The Impact of Entrepreneur's Positive Future Thinking on Future Crash Risk

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Main Results – 5. Underperformers & Entrepreneur's Positive Future Thinking

The underperformed dot-com era IPO firms tend to show significantly higher positive future thinking and it is consistent with prior studies.

	NCSKEW		DUVOL		COUNT	
	Perfo	Performance (Poor = \triangle ROA<0; Good = \triangle ROA>0; Return on Assets ¹)				
	Poor	Poor Good Poor Good Good				
PFT	0.232***	0.120	0.099***	0.030	0.055*	0.079**
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Industry Fixed Effect	Yes	Yes	Yes	Yes	Yes	Yes
Observations	217	198	217	198	177	153
D.V. ² Mean	-0.04	0.21	-0.14	-0.03	0.00	0.00

But the coefficients of *PFT* are not significantly different between the two groups when crash risk is measured by *COUNT*. This is probably because of the lack of distinction between persistent and transitory good performance.

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¹⁾ Operating income before extraordinary items and discontinued operations / total assets. I use *ROA* to capture firm performance, a widely used measure of overall company performance in the capital markets. 2) Dependent Variable.

Main Results – 6. Litigation Risk & Entrepreneur's Positive Future Thinking

I assigned a dot-com era IPO firm into the high litigation risk subsample if a firm operates in the following industries¹, according to the Fama & French 49 Industry Classification (Kim & Skinner 2012).

	NCSKEW		DUVOL		COUNT	
	Litigation Risk					
	High	High Low High Low High Low				
PFT	0.193	0.125**	0.083	0.046**	0.080	0.043*
Controls	Yes	Yes	Yes	Yes	Yes	Yes
Industry Fixed Effect	Yes	Yes	Yes	Yes	Yes	Yes
Observations	101	404	101	404	101	361
D.V. Mean	0.29	0.08	-0.02	-0.10	0.00	0.00

Interestingly, the dot-com era entrepreneurs appear to *adapt* their positive future thinking if they expect higher litigation risk and it highlights the importance of social forces in self-regulation.

¹⁾ Drugs (13), Hardware Computers (35), Chips Electronic Equipment (37), and Retail (43).

DISCUSSION

I reviewed the articles and found the recurring concepts and mechanisms ...

Antecedents	Cognitive Complexity	Energization Process	Temptation-Inhibiting Plan	Cultural Norm
Need State	Cognitive Demand	Goal Attachment	Task-Facilitating Plan	Loose-Tight Culture
Mood [Sadness]	Intention Formation	Plan Formation	Plan Enactment	Social Norm
Performance History	Action Initiation	IF-Process	THEN-Process	Effort Mobilization
Working/Episodic Memory	Action Planning	Stimulus Perception	Automatic Initiation	Suitable Mean
Goal Disengagement	Explanatory Vacuum	Effective Cue Detection	Efficient Response Initiation	Strategic Automaticity
Goal Accessibility	Reflexive Interpretation	Effective Inattention	Cognitive Capacity [Load]	Coping with Stress
Planning Emergence	Reflective Interpretation	(Distraction Inhibition)	Executive Functions	Goal Shielding
Perceived Feasibility	Desirable Goal	Feasible Goal	Flexible Implementation	Goal Monitoring
Efficacy Expectation	(Needs [Motives])	(Expectation; Efficacy)	Feedback [Offensive]	Goal Maintenance
Outcome Expectation	General Expectation	Socially Prescribed Perfectionism	Feedback [Negative]	Persistent Efforts
Goal Commitment	Goal Setting	Goal Implementation	Goal Monitoring	Goal Framing
Goal Evaluation	Goal Adopting	Goal Striving	Goal (Dis)engagement	Approach Goal
Goal Emergence	Goal Intention	Goal-Directed Action	Goal Relinquishment	Avoidance Goal
Goal Initiation	Goal Difficulty	Goal-Directed Behavior	Goal Shielding	Goal Content
Goal Choice	Goal Activation	Conscious Goal	Nonconscious Goal	Competence Goal
Goal Selection	Goal Substitution	Explicit Goal	Implicit Goal	Competence Fantasy
Goal Formation	Goal Attachment	Conscientiousness	Learning Goal	Competitive Goal
Goal Projection	Time Pressure	Information Processing	Performance Goal	Self-Improvement Goal
'Motivation' Concept	Motivation [Volition]	Motivation & Action	Needs & Incentives	Motivational Intelligence
Goal-Behavior Link	Expectancy-Behavior	Expectancy-Commitment	Commitment-Striving	Mean Reversion
Optimism/Pessimism	Action Phases	Theory of Reasoned Action	William James	Beliefs vs Images
Optimism vs Realism	Action Theories	Theory of Planned Behavior	Ernst E. Boesch	Thinking about the Future
Overestimation [Ability]	Kurt Lewin	Goal vs Plan	Goal-Behavior Link	Jerome L. Singer
Causality Belief	Agency Belief	Control Belief	Self-Efficacy Belief	Eric Klinger
Victor Frankl (1959)	Humanistic Psychology	Carolin Showers	Steven J. Sherman	Darlene E. Goodhart
Jack W. Brehm	Energization Theory	Robert A. Wicklund	Self-Completion Theory	Steele & Josephs (1990)
Robert J. Havighurst	Developmental Task	Peer M. Gollwitzer	Deliberative Mindsets	Alcohol Myopia Theory
Martin E.P. Seligman	Learned Optimism	Shelley E. Taylor	(Positive) Self-View	Fitzsimons & Moore (2008)
Charles R. Snyder	Hope Theory	Newell-Simon (1972)	Theory of Problem-Solving	Question-Behavior Effect

... in the area of positive (& negative) fantasy, mental contrasting, MCII ... [1 of 2]

Expectation vs Fantasy
CTR (1991) 15.2
Guilford [1996] 236-259
C&P (1997) 3.3
Sage [1999] 315-342
SocCog (2000) 18.2
JPSP (2002) 83.5
Oxford [2006] 120-142
Guilford [2018] 127-149
Oxford [2019] 596-612

Positive Fantasy CTR (1991) 15.2 Max Planck (1995a) Max Planck (1995b) Guilford [1996] 236-259 Sage [1999] 315-342 Erlbaum [2004] 225-244 Oxford [2006] 120-142 JRP (2011) 45.3 JESP (2011) 47.4 EJSP (2012) 42.1 EJSP (2012) 42.3 PSPB (2012) 38.7 ERSP (2012) 23.1 JCP (2013) 23.1 M&E (2014) 38.1 PSYS (2014) 25.4 Springer [2015] 315-329 Elsevier [2015] 887-893

Positive Fantasy
PSYS (2016) 27.3
RGP (2016) 20.1
Guilford [2016] 547-570
Oxford [2017] 69-79
Guilford [2018] 127-149
Oxford [2019] 596-612
C&E (2019) 34.5
C&E (2019) 34.5

Negative Fantasy P&H (2010) 25.8 FiP (2017) 8.1596 M&E (2020) 44.2

Mental Contrasting
Guilford [1996] 236-259
C&P (1997) 3.3
P&H (1998) 13.4
Sage [1999] 315-342
IJER (2000) 33.7-8
SocCog (2000) 18.2
JPSP (2001) 80.5
European Commission [2002]
PSYI (2002) 13.4
Erlbaum [2004] 225-244
M&E (2005) 29.4
Guilford [2005] 647-665
Oxford [2006] 120-142
APA [2007] 23-47

Elsevier [2008] 191-211
PsycPress [2008] 395-412
SocNeu (2009) 4.1
Guilford [2009] 153-178
PSPB (2009) 35.5
PsycPress [2009] 127-146
EJSP (2009) 39.7
JPerPsy (2010) 9.3
SocCog (2010) 28.4
Guilford [2010] 114-135
P&H (2010) 25.8
Emotion (2011) 11.5
M&E (2011) 35.4
JESP (2012) 48.4
PSPB (2012) 38.7
JESP (2012) 48.5
P&H (2012) 27.S2
ERSP (2012) 23.1
Springer [2013] 19-33
HealthPSY (2013) 32.7
FiP (2013) 4.562
PSPB (2013) 39.9
JESP (2013) 49.5
PSPB (2014) 40.2
Wiley [2014] 236-257
JESP (2014) 54
Elsevier [2015] 887-893
M&E (2015) 39.6

Mental Contrasting

JCP (2008) 18.2

Elsevier [2008] 191-211

Mental Contrasting
RGP (2016) 20.1
SPPC (2016) 10.11
FiP (2017) 8.1596
SocialPSY (2017) 48.6
Oxford [2017] 69-79
SocialPSY (2018) 49.6
Guilford [2018] 127-149
M&E (2018) 42.1
MOT (2018) 4.2
Oxford [2019] 596-612
PS&E (2019) 45
MOT (2020) 6.2
M&E (2020) 44.3
PSPB (2020) 46.8

Implementation Intention
P&H (1998) 13.4
AMPSY (1999) 54.7
IJER (2000) 33.7-8
European Commission [2002]
PSYI (2002) 13.4
Erlbaum [2004] 225-244
Guilford [2004] 211-228
JBDM (2007) 20.1
APA [2007] 23-47
SocCog (2007) 25.2
JCP (2008) 18.2
Elsevier [2008] 191-211

... in the area of positive (& negative) fantasy, mental contrasting, MCII ... [2 of 2]

Implementation Intention
Oxford [2008] 603-624
SocNeu (2009) 4.1
PsycPress [2009] 127-146
EJSP (2009) 39.7
LID (2010) 20.1
Oxford [2010] 279-296
Guilford [2010] 114-135
Guilford [2011] 162-185
JSCP (2011) 30.6
Oxford [2012] 208-231
Springer-Verlag [2012]
Oxford [2013] 221-243
Springer [2013] 19-33
Wiley [2014] 236-257
Elsevier [2015] 887-893
P&H (2016) 31.7
IJPP (2016) 107
PsycPress [2016] 69-84
Guilford [2018] 127-149
Oxford [2018] 90-114
Springer [2019] 23-37
Oxford [2019] 596-612

... and more to come in the future!

... and a variety of academic domains with ...

Cultural Factors East Germany Moscow vs Western German vs Russian Multi-Countries Soviet Republics (USSR) East Germany West Germany Poland Czechoslovakia US (East) US (West) Japan (Tokyo) Gerard (Geert) Hofstede National Culture Individualism/Collectivism Uncertainty Avoidance Relationship Science Relationship Gonflict Relationship Initiation Relationship Maintenance Relatedness Need Romantic Relationship Relationship Conflict Kindergarten (Teacher) Grades 2 nd , 6 th Age 8-12 Elementary School Middle School High-School (Adolescent) Vocational Training Higher Education School Performance Academic Performance Foreign Language Study Self-Directed Study Behavior Academic Help-Seeking Test Anxiety Carol S. Dweck Mid-Aged Women Chronic (Back) Pain Acute Illness Chronic Illness Incremental Theory Mid-Aged Women Physicians' Behavior Professional Nurse Health Professional Help-Giving Behavior Pattlicar Provider Comm. Physicians' Behavior Professional Nurse <th></th> <th></th> <th></th> <th></th> <th></th>					
US (East) US (West) US (West) US (West) Undertainty Avoidance Power Distance Cultural Tolerance Relationship Science Relationship Initiation Relationship Maintenance Relationship Science Relationship Science Relationship Conflict Relationship Conflict Relationship Conflict Relationship Maintenance Relationship Science Relatedness Need Romantic Relationship Relationship Conflict Relationship Conflict Relationship Conflict Relationship Science Relatedness Need Romantic Relationship Relationship Relationship Relationship Conflict Relationship Conflict Relationship Conflict Relationship Maintenance Relationship Conflict Relationship Maintenance Relationship Conflict Relationship Maintenance Relationship Relationship Relationship Relationship Relationship Conflict Relationship Conflict Relationship Conflict Relationship Conflict Relationship Maintenance Relatedness Need Romantic Relationship Relationship Medica School Richard Relationship Relationship Maintenance Relationship Maintenance Relatedness Need Romantic Relationship Relationship Conflict Relationship Maintenance Relationship Maintenance Relatedness Need Romantic Relationship Relationship Medical School Middle School Middle School Middle School Middle School Relationship Medical Relationship Relationship Medical Relationship Relationship Medical Communication Relationship Medical Relationship Relationship Medical Communication Relationship Medical Relationship Relationship Medical Relationship Relationship Medical Communication Relationship Medical Communication Relationship Medical Communication Relationship Medical Communication Relationship Relationship Medical Communication Relationship Relationship Relationship Rela	Cultural Factors	East vs West Germany	Moscow vs Western	German vs Russian	Multi-Countries
Individualism/Collectivism Cultural Tolerance Relationship Science Relationship Science Relationship Initiation Relationship Maintenance Interpersonal Tolerance Interpersonal Behavior Education Research Middle School Middle Middle	Soviet Republics (USSR)	East Germany	West Germany	Poland	Czechoslovakia
Relationship Science Relationship Maintenance Relationship Maintenance Relationship Initiation Relationship Maintenance Rindergarten (Teacher) Relationship Maintenance Interpersonal Behavior Age 8-12 Relationship Conflict Relationship Relationship Relationship Relationship Pade Political Relationship Pade Political Relationship Profesional Relationship Relationship Pade Pade Pade Pade Pade Pade Pade Pade	US (East)	US (West)	Japan (Tokyo)	Gerard (Geert) Hofstede	National Culture
Relationship Initiation Kindergarten (Teacher) Grades 2 nd -6 th Age 8-12 High-School (Adolescent) Foreign Language Study Public Health Chronic (Back) Pain Pediatric Patients Leukemia Cancer Lymphoma Cancer Professional Nurse Health Professional Hop-Theory (by Snyder) Professions Signs Prospersion Signs Professional Women Professional Women Professional Women Professional Women Professional Nurse Professional Repartion Professional Women Professional Nurse Professional Nurse Professional Nurse Professional	Individualism/Collectivism	Uncertainty Avoidance	Power Distance	Ernst E. Boesch	Thinking about the Future
Kindergarten (Teacher) Grades 2 nd -6 th Age 8-12 Elementary School Middle School High-School (Adolescent) Vocational Training Higher Education School Performance Academic Performance Foreign Language Study Self-Directed Study Behavior Academic Help-Seeking Test Anxiety Carol S. Dweck Public Health Chronic (Back) Pain Acute Illness Incremental Theory Mid-Aged Women Pediatric Patients Elderly Patients Alcohol Myopia Theory Alcohol (Ab)use Cancer Patients Leukemia Cancer Lymphoma Cancer Smoking Behavior (Un)healthy Eating Patient-Provider Comm. Physicians' Behavior Professional Nurse Health Professional Help-Giving Behavior Healthcare Managers Medical Adherence Weight Loss Mental Health Clinician's Behavior PTSD Resilience PTSD Behavior Spider Phobia Obesity Risk Sport & Exercise Social Issues Immigration Integration Immigration Policy Minority Ethnicity Competitive Athletics Competitive Athletics Political Psychology Political Communication Election Behaviors Foreign Policy Political Corganizations Political Psychology Political Communication Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Personnel Managers Personnel Managers Healthcare Management Consumer Behavior Cigarette Consumption Snacking Habit Political Communication Political Communication Snacking Habit Political Communication Political Communication Snacking Habit Political Communication Snacking Habit Political Communication Snacking Habit Political Communication Political Communication Snacking Habit Political Communication Political Communication Snacking Habit Political Communication Politic	Cultural Tolerance	Relationship Science	Relatedness Need	Romantic Relationship	Relationship Conflict
High-School (Adolescent) Vocational Training Higher Education School Performance Academic Performance Foreign Language Study Self-Directed Study Behavior Academic Help-Seeking Test Anxiety Carol S. Dweck Public Health Chronic (Back) Pain Acute Illness Chronic Illness Incremental Theory Mid-Aged Women Pediatric Patients Elderly Patients Alcohol Myopia Theory Alcohol (Ab) use Cancer Patients Leukemia Cancer Lymphoma Cancer Smoking Behavior (Un)healthy Eating Patient-Provider Comm. Physicians' Behavior Professional Nurse Health Professional Help-Giving Behavior Healthcare Managers Medical Adherence Weight Loss Mental Health Clinician's Behavior PTSD Resilience PTSD Behavior Spider Phobia Obesity Risk Sport & Exercise Social Issues Immigration Integration Immigration Policy Minority Ethnicity Competitive Athletics Gender Effect Professional Women Low-Income Area Low-SES Students Physical Activity Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Election Behaviors Foreign Policy International Security Organizational Behaviors Career Behaviors Career Outcomes Work-Family Conflicts Political Conflicts Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumption Snacking Habit	Relationship Initiation	Relationship Maintenance	Interpersonal Tolerance	Interpersonal Behavior	Education Research
Foreign Language Study Self-Directed Study Behavior Public Health Chronic (Back) Pain Acute Illness Chronic Illness Incremental Theory Alcohol (Ab)use Cancer Patients Carcer Patients Chronic Illness Chronic Illness Chronic Illness Chronic Illness Incremental Theory Alcohol (Ab)use Chronic Illness Chronic Illness Chronic Illness Chronic Illness Chronic Illness Incremental Theory Alcohol (Ab)use Chronic Illness Chronic Illness Chronic Illness Chronic Illness Chronic Illness Chronic Illness Incremental Theory Alcohol (Ab)use Chronic Illness Chronic Illness Chronic Illness Chronic Illness Incremental Theory Alcohol (Ab)use Chronic Illness Chronic Political Compunication Competitive Adherics Competitive Adherics Chronic Illness Clarer Anxiety Clarer Anxiety C	Kindergarten (Teacher)	Grades 2 nd -6 th	Age 8-12	Elementary School	Middle School
Public HealthChronic (Back) PainAcute IllnessChronic IllnessIncremental TheoryMid-Aged WomenPediatric PatientsElderly PatientsAlcohol Myopia TheoryAlcohol (Ab)useCancer PatientsLeukemia CancerLymphoma CancerSmoking Behavior(Un)healthy EatingPatient-Provider Comm.Physicians' BehaviorProfessional NurseHealth ProfessionalHelp-Giving BehaviorHealthcare ManagersMedical AdherenceWeight LossMental HealthClinician's BehaviorDepression SignsDepressive DisorderHope Theory (by Snyder)PsychotherapyADHD-at-Risk ChildrenPTSD ResiliencePTSD BehaviorSpider PhobiaObesity RiskSport & ExerciseSocial IssuesImmigration IntegrationImmigration PolicyMinority EthnicityCompetitive AthleticsGender EffectProfessional WomenLow-Income AreaLow-SES StudentsPhysical ActivityChild RightsChild SoldiersWar CrimeHuman RightsDomestic ViolencePoliticalPsychologyPolitical CommunicationElection BehaviorsPolitical SystemPolitical OrganizationsPolitical PsychologyPolitical CommunicationElection BehaviorsForeign PolicyInternational SecurityOrganizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNee	High-School (Adolescent)	Vocational Training	Higher Education	School Performance	Academic Performance
Mid-Aged WomenPediatric PatientsElderly PatientsAlcohol Myopia TheoryAlcohol (Ab)useCancer PatientsLeukemia CancerLymphoma CancerSmoking Behavior(Un)healthy EatingPatient-Provider Comm.Physicians' BehaviorProfessional NurseHealth ProfessionalHelp-Giving BehaviorHealthcare ManagersMedical AdherenceWeight LossMental HealthClinician's BehaviorDepression SignsDepressive DisorderHope Theory (by Snyder)PsychotherapyADHD-at-Risk ChildrenPTSD ResiliencePTSD BehaviorSpider PhobiaObesity RiskSport & ExerciseSocial IssuesImmigration IntegrationImmigration PolicyMinority EthnicityCompetitive AthleticsGender EffectProfessional WomenLow-Income AreaLow-SES StudentsPhysical ActivityChild RightsChild SoldiersWar CrimeHuman RightsDomestic ViolencePoliticalExecutive PoliticsAmerican PresidencyPolitical SystemPolitical OrganizationsPolitical PsychologyPolitical CommunicationElection BehaviorsForeign PolicyInternational SecurityOrganizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorIntegrative BargainingProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel Managers<	Foreign Language Study	Self-Directed Study Behavior	Academic Help-Seeking	Test Anxiety	Carol S. Dweck
Cancer PatientsLeukemia CancerLymphoma CancerSmoking Behavior(Un)healthy EatingPatient-Provider Comm.Physicians' BehaviorProfessional NurseHealth ProfessionalHelp-Giving BehaviorHealthcare ManagersMedical AdherenceWeight LossMental HealthClinician's BehaviorDepression SignsDepressive DisorderHope Theory (by Snyder)PsychotherapyADHD-at-Risk ChildrenPTSD ResiliencePTSD BehaviorSpider PhobiaObesity RiskSport & ExerciseSocial IssuesImmigration IntegrationImmigration PolicyMinority EthnicityCompetitive AthleticsGender EffectProfessional WomenLow-Income AreaLow-SES StudentsPhysical ActivityChild RightsChild SoldiersWar CrimeHuman RightsDomestic ViolencePoliticalExecutive PoliticsAmerican PresidencyPolitical SystemPolitical OrganizationsPolitical PsychologyPolitical CommunicationElection BehaviorsForeign PolicyInternational SecurityOrganizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorIntegrative BargainingProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalismMedical CommunicationBusiness Journal	Public Health	Chronic (Back) Pain	Acute Illness	Chronic Illness	Incremental Theory
Patient-Provider Comm. Physicians' Behavior Professional Nurse Health Professional Help-Giving Behavior Healthcare Managers Medical Adherence Weight Loss Mental Health Clinician's Behavior Depression Signs Depressive Disorder Hope Theory (by Snyder) Psychotherapy ADHD-at-Risk Children PTSD Resilience PTSD Behavior Spider Phobia Obesity Risk Sport & Exercise Social Issues Immigration Integration Immigration Policy Minority Ethnicity Competitive Athletics Gender Effect Professional Women Low-Income Area Low-SES Students Physical Activity Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Election Behaviors Foreign Policy International Security Organizational Behaviors Career Behavior Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Decision Efficiency Need for Power Need for Meaning Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumer Behavior Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	Mid-Aged Women	Pediatric Patients	Elderly Patients	Alcohol Myopia Theory	Alcohol (Ab)use
Healthcare Managers Medical Adherence Weight Loss Mental Health Clinician's Behavior Depression Signs Depressive Disorder Hope Theory (by Snyder) Psychotherapy ADHD-at-Risk Children PTSD Resilience PTSD Behavior Spider Phobia Obesity Risk Sport & Exercise Social Issues Immigration Integration Immigration Policy Minority Ethnicity Competitive Athletics Gender Effect Professional Women Low-Income Area Low-SES Students Physical Activity Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Election Behaviors Foreign Policy International Security Organizational Behaviors Career Behaviors Career Outcomes Work-Family Conflicts Political Conflicts Conflict Resolution Negotiation Behavior Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Decision Efficiency Need for Power Need for Meaning Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumer Behavior Journalism Studies Political Journalism Business Journalism Financial Journalism Cigarette Consumption Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	Cancer Patients	Leukemia Cancer	Lymphoma Cancer	Smoking Behavior	(Un)healthy Eating
Depression Signs Depressive Disorder Hope Theory (by Snyder) Psychotherapy ADHD-at-Risk Children PTSD Resilience PTSD Behavior Spider Phobia Obesity Risk Sport & Exercise Social Issues Immigration Integration Immigration Policy Minority Ethnicity Competitive Athletics Gender Effect Professional Women Low-Income Area Low-SES Students Physical Activity Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Election Behaviors Foreign Policy International Security Organizational Behaviors Career Behaviors Career Outcomes Work-Family Conflicts Political Conflicts Conflict Resolution Negotiation Behavior Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Decision Efficiency Need for Power Need for Meaning Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumer Behavior Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	Patient-Provider Comm.	Physicians' Behavior	Professional Nurse	Health Professional	Help-Giving Behavior
PTSD Resilience PTSD Behavior Spider Phobia Obesity Risk Sport & Exercise Social Issues Immigration Integration Gender Effect Professional Women Low-Income Area Low-SES Students Physical Activity Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Project Completion Project Relinquishment Developmental Tasks Developmental Goals Presonnel Managers Political Communication Project Relinquishment Durnalism Studies Political Communication Business Journalism Political Communication Snacking Habit	Healthcare Managers	Medical Adherence	Weight Loss	Mental Health	Clinician's Behavior
Social IssuesImmigration IntegrationImmigration PolicyMinority EthnicityCompetitive AthleticsGender EffectProfessional WomenLow-Income AreaLow-SES StudentsPhysical ActivityChild RightsChild SoldiersWar CrimeHuman RightsDomestic ViolencePoliticsExecutive PoliticsAmerican PresidencyPolitical SystemPolitical OrganizationsPolitical PsychologyPolitical CommunicationElection BehaviorsForeign PolicyInternational SecurityOrganizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorIntegrative BargainingProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Depression Signs	Depressive Disorder	Hope Theory (by Snyder)	Psychotherapy	ADHD-at-Risk Children
Gender Effect Professional Women Low-Income Area Low-SES Students Physical Activity Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Election Behaviors Foreign Policy International Security Organizational Behaviors Career Behaviors Career Outcomes Work-Family Conflicts Political Conflicts Conflict Resolution Negotiation Behavior Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Decision Efficiency Need for Power Need for Meaning Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumer Behavior Journalism Studies Political Journalism Business Journalism Financial Journalism Cigarette Consumption Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	PTSD Resilience	PTSD Behavior	Spider Phobia	Obesity Risk	Sport & Exercise
Child Rights Child Soldiers War Crime Human Rights Domestic Violence Politics Executive Politics American Presidency Political System Political Organizations Political Psychology Political Communication Election Behaviors Foreign Policy International Security Organizational Behaviors Career Behaviors Career Outcomes Work-Family Conflicts Political Conflicts Conflict Resolution Negotiation Behavior Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Decision Efficiency Need for Power Need for Meaning Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumer Behavior Journalism Studies Political Journalism Business Journalism Financial Journalism Cigarette Consumption Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	Social Issues	Immigration Integration	Immigration Policy	Minority Ethnicity	Competitive Athletics
PoliticsExecutive PoliticsAmerican PresidencyPolitical SystemPolitical OrganizationsPolitical PsychologyPolitical CommunicationElection BehaviorsForeign PolicyInternational SecurityOrganizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorIntegrative BargainingProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Gender Effect	Professional Women	Low-Income Area	Low-SES Students	Physical Activity
Political PsychologyPolitical CommunicationElection BehaviorsForeign PolicyInternational SecurityOrganizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorIntegrative BargainingProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Child Rights	Child Soldiers	War Crime	Human Rights	Domestic Violence
Organizational BehaviorsCareer BehaviorsCareer OutcomesWork-Family ConflictsPolitical ConflictsConflict ResolutionNegotiation BehaviorIntegrative BargainingProject CompletionProject RelinquishmentDevelopmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Politics	Executive Politics	American Presidency	Political System	Political Organizations
Conflict Resolution Negotiation Behavior Integrative Bargaining Project Completion Project Relinquishment Developmental Tasks Developmental Goals Decision Efficiency Need for Power Need for Meaning Prosocial Behavior Middle Managers Personnel Managers Healthcare Management Consumer Behavior Journalism Studies Political Journalism Business Journalism Financial Journalism Cigarette Consumption Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	Political Psychology	Political Communication	Election Behaviors	Foreign Policy	International Security
Developmental TasksDevelopmental GoalsDecision EfficiencyNeed for PowerNeed for MeaningProsocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Organizational Behaviors	Career Behaviors	Career Outcomes	Work-Family Conflicts	Political Conflicts
Prosocial BehaviorMiddle ManagersPersonnel ManagersHealthcare ManagementConsumer BehaviorJournalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Conflict Resolution	Negotiation Behavior	Integrative Bargaining	Project Completion	Project Relinquishment
Journalism StudiesPolitical JournalismBusiness JournalismFinancial JournalismCigarette ConsumptionSports JournalismMedical CommunicationBusiness CommunicationPolitical CommunicationSnacking Habit	Developmental Tasks	Developmental Goals	Decision Efficiency	Need for Power	Need for Meaning
Sports Journalism Medical Communication Business Communication Political Communication Snacking Habit	Prosocial Behavior	Middle Managers	Personnel Managers	Healthcare Management	Consumer Behavior
	Journalism Studies	Political Journalism	Business Journalism	Financial Journalism	Cigarette Consumption
Interesting PhenomenonBelief-Performance GapLife Transition [Job]Olympic GamesCharitable Giving	Sports Journalism	Medical Communication	Business Communication	Political Communication	Snacking Habit
	Interesting Phenomenon	Belief-Performance Gap	Life Transition [Job]	Olympic Games	Charitable Giving

... different methodological approaches, including

Content Analysis

, ...

Multi-WavesIJBD (2003) 27.1

Randomized Controlled Trial
AJPM (2009) 36.1
HealthPSY (2010) 29.3
Pain (2010) 149.3

Random Assignment

JPerPsy (2010) 9.3 JESP (2010) 46.3 EduPSY (2011) 31.1 JSCP (2011) 30.6 CTR (2011) 35.5 IJCM (2011) 22.4 M&E (2011) 35.4

Self-Report

PSPB (2009) 35.5 JPerPsy (2010) 9.3 SocCog (2010) 28.4 JESP (2011) 47.4

(Daily) Diary

HealthPSY (2010) 29.3 EJSP (2010) 40.7

Experiment [Game]

JPSP (2004) 86.4 JESP (2010) 46.3

Experiment [Acute Stress]

PSPB (2009) 35.5

Behavioral Experiment

Writing Tasks
P&H (2010) 25.8
Emotion (2011) 11.5

Behavioral Experiment

Alcohol Consumption JAbP (2009) 118.3

Behavioral Experiment

No Water Drinking JESP (2011) 47.4

Questionnaire [Mail]

SocCog (2010) 28.4

Memory Test

JESP (2007) 43.1

Critical Thinking Test Emotion (2011) 11.5

Mental Exercise EJSP (2010) 40.7

Press Conferences

AMPSY (1988) 43.9

Political Speeches AMPSY (1988) 43.9

Sports News
EJSP (1990) 20.3

Business News PSYS (2014) 25.4

Presidential Addresses PSYS (2014) 25.4

JLSP (2020) 39.2

MEG Activity

SocNeu (2009) 4.1

fMRI Test

JEP(LMC) (2009) 35.4

Music Listening

Emotion (2011) 11.5

Physiological Measure

PSPB (2009) 35.5 JESP (2011) 47.4

Systolic Blood Pressure

PSPB (2009) 35.5 JESP (2011) 47.4

Natural Experiment

German Reunification JPSP (1994) 66.3 Information Age [2006]

... that helps to effectively change numerous behaviours.

JBDM (2007) 20.1

Sage [1999] 315-342

Weight Reduction	Physical Activity	Preventive Medicine	Anxiety Regulation
CTR (1991) 15.2	HealthPSY (2013) 32.7	AJPM (2009) 36.1	LID (2010) 20.1
RehabPSY (2017) 62.4	RehabPSY (2017) 62.4	P&H (2010) 25.8	PSPB (2013) 39.5
Character Anthony	Controlled Discon		FiP (2017) 8.1596
Chronic Asthma	Gastrointestinal Disease	Joint Intervention	
Max Planck (1995)	Max Planck (1995)	AJPM (2009) 36.1	Anger Regulation
Academic Goal	Relationship Initiation	HealthPSY (2010) 29.3	FiP (2018) 9.1838
IJER (2000) 33.7-8	SocCog (2000) 18.2	Pain (2010) 149.3	
13ER (2000) 33.7 0	300cog (2000) 18.2		Disappointment Regulation
Alcohol (Ab)use	Smoking Behavior	Conciliatory Behavior	M&E (2018) 42.1
JAbP (2009) 118.3	JAbP (2009) 118.3	M&E (2020) 44.3	
FiP (2014) 5.169	P&H (2010) 25.8		Regret Regulation
PAB (2018) 32.7	P&H (2020) 35.3	Unhealthy Eating	M&E (2018) 42.1
HE&B (2019) 46.4		JAbP (2009) 118.3	Resentment Regulation
11205 (2025) 1011	Group Treatment	EJSP (2010) 40.7	
Time Management	CTR (1991) 15.2	FiP (2016) 7.607	M&E (2018) 42.1
JPerPsy (2010) 9.3	Work Foreth, Dolones		Stress Regulation
EJSP (2015) 45.2	Work-Family Balance	Job Application	FiP (2018) 9.838
	SocCog (2000) 18.2	MOT (2018) 4.2	FIF (2016) 9.636
ADHD-at-Risk	Integrative Bargaining		Sleep Behavior
M&E (2013) 37.1		Academic Performance	P&H (2020) 35.3
Haalah Duafasatanah	IJCM (2013) 24.2	SPPS (2013) 4.6	F & H (2020) 33.3
Health Professional	Physicians' Behavior	Clinician's Behavior	Medical Adherence
Psychiatric (2007) 58.3			APA [2007] 23-47
JPerPsy (2010) 9.3	Psychiatric (2007) 58.3	Psychiatric (2007) 58.3	AFA [2007] 25-47
Escalation of Commitment	Drogress Desision	Adoption Design	Quitting Pohavior
	Progress Decision	Adoption Decision	Quitting Behavior
JBDM (2007) 20.1	JBDM (2007) 20.1	JBDM (2007) 20.1	P&H (2010) 25.8
Colf Decolotom Charles	Custobine Dobesies	Marking Line Deberries	Charlein a Daharian
Self-Regulatory Strategies	Switching Behavior	Multitasking Behavior	Studying Behavior

Oxford [2010] 279-296

JGME (2017) 9.4

Discussions

I expect to introduce the psychology of thinking about the future to behavioral finance scholarships.

- ¶ The fundamental concepts can be shared by the behavioral finance researchers.
 - Expectation vs. Fantasy (William James: 'Beliefs vs. Images')
 - · I may use a two-stage model to distinguish between 'expectation' and 'fantasy' later.
- ¶ The proven, effective interventions (e.g., mental contrasting, if-then plans, and MCII) should be applied to entrepreneurs too and it'll be interesting to see if it works.
 - The known mechanisms behind the psychology of thinking about the future also can be tested.
- ¶ Thanks to a sea of ready-to-use financial data, I expect to test a few more interesting phenomena in corporate America based on the science of human motivation.
 - Y variables: CEO dismissal, shareholder lawsuits, M&A riskiness, bank performance, ...
 - X variables: Managerial ability, managerial entrenchment, stock option-based incentives, ...

Discussions (Cont'd)

I admit the limitations of this study and plan to work on the following issues.

- ¶ Validate the 'positive future' index.
 - I analyzed the corporate historical documents that exhibited 'entrepreneurial cognition' and naturally it shows the level of 'entrepreneurial positive future thinking'.
 - · But I admit that it needs to be validated by independent judges and will present a plan how to do it based on the prior researches.
- ¶ Validate the dot-com bubble period IPO dates
 - The IPO dates at the Compustat and US SEC EDGAR database need to be reconciled. I believe
 I covered almost 80-90 percent of the sample IPO firms so far.
- ¶ Further Tests?
 - Within the regression models, I may add some robustness checks.
 - · e.g., falsification tests, change analysis, and additional control variables.

END OF DOC