

September 2007

1. Lauren Alloy. NIMH – BAS and Bipolar Disorder: Prospective Biobehavioral High Risk Design.

Start Date	End Date	Direct Cost	Indirect Cost	Total
09/26/07	07/31/12	\$1,625,000	\$812,500	\$2,437,500

This new project will provide the first use of a powerful biobehavioral high-risk strategy to understand vulnerability to and predict first onset of bipolar spectrum disorders from a Behavioral Approach System (BAS) dysregulation perspective.

2. Lauren Alloy. NIMH - BAS and Bipolar Spectrum: Biopsychosocial Integration

Start Date	End Date	Direct Cost	Indirect Cost	Total
12/01/02	11/30/07	\$1,539,647	\$775,350	\$2,314,997

Although important biological work has been conducted on Bipolar (Bi) disorder, less work has examined psychological factors in the onset, course and progression of this disorder. Thus, in this project, theories implicating the Behavioral Approach System (BAS) in Bi Spectrum disorders are integrated with work on psychosocial factors in these conditions to provide a theoretically consistent and methodologically rigorous biopsychosocial framework to guide a prospective study of the course and progression of Bi disturbance.

3. Deborah Drabick. NIMH – Comorbidity of Conduct Problems and Depressive Symptoms.

Start Date	End Date	Direct Cost	Indirect Cost	Total
04/06/07	03/31/12	\$674,427	\$53,474	\$727,901

The objectives of this award are to evaluate risk factors for, and prospective relations between, conduct problem and depressive symptoms among children. Person- and variable-centered approaches will be used to examine the roles of peer-child interactional and prefrontal processes in the development of co-occurring conduct problems and depression.

4. Tania Giovannetti. Michael J. Fox Foundation for Parkinson's Disease Research - Everyday Action Impairment in Parkinson's Disease Dementia/Dementia with Lewy Bodies.

Start Date	End Date	Direct Cost	Indirect Cost	Total
11/01/07	10/31/08	\$68,144	\$6814.40	\$74,958.40

This grant aims to elucidate the causal mechanisms for everyday action impairment in people with Parkinson's disease (PD) and Parkinson's Disease Dementia/Dementia with Lewy Bodies (PDD/DLB).

5. Tania Giovannetti. Subcontract/ Alzheimer's Association Investigator Initiated Research Grant - The Effect of Leukoaraiosis in Alzheimer's Disease.

Start Date	End Date	Direct Cost	Indirect Cost	Total
01/01/07	12/30/09	\$31,160	\$3,160	\$34,320

This study examines the effect of white matter changes on MRI on cognitive performance. White matter alterations are quantified by region: periventricular, deep, and subcortical. My specific role on this project is to evaluate the link between white matter alterations and everyday action errors.

6. Tania Giovannetti. Subcontract/Eisai Incorporated (Aricept Grant) – Treating Patients with Alzheimer's Disease with Significant Leukoaraiosis with Donepezil.

Start Date	End Date	Direct Cost	Indirect Cost	Total
01/01/07	12/31/07	\$13,500	N/A	\$13,500

This study examines the effect of Donepezil on Alzheimer's disease associated with significant white matter alterations on MRI. My specific role on this project is to evaluate changes in everyday action performance as a result of treatment.

7. Thomas Gould. NIDA/NIH - Nicotine Addiction: Learning, Neural, & Genetic Processes.

Start Date	End Date	Direct Cost	Indirect Cost	Total
7/1/05	6/30/10	\$1,000,000	\$361,423	\$1,361,220

The objectives of this award are to investigate acute effects nicotine on learning and the underlying neural substrates.

8. Thomas Gould. NIAA/NIH - Nicotine & Ethanol Influences on Contextual Conditioning.

Start Date	End Date	Direct Cost	Indirect Cost	Total
12/10/5	11/30/07	\$100,000	\$41,410	\$141,410

The objectives of this award are to investigate the interactive effect of effects ethanol and nicotine on learning and the underlying neural

9. Thomas Gould. Collaborators at University of Pennsylvania. NIH/NCI - Nicotine Withdrawal and Sensory Gating: Noradrenergic Intervention.

Start Date	End Date	Direct Cost	Indirect Cost	Total
10/01/04	09/30/09	\$46,000	N/A	\$46,000

10. Thomas Gould. Collaborators at University of Pennsylvania. NIH/NCI – The role of CREB and Opioid System in Nicotine Award.

Start Date	End Date	Direct Cost	Indirect Cost	Total
10/01/04	09/30/09	\$19,715	N/A	\$19,715

11. Richard Heimberg. National Institute of Mental Health - CBT Augmentation of Paroxetine for Social Anxiety

Start Date	End Date	Direct Cost	Indirect Cost	Total
8/15/03	5/31/08	\$805,241	\$403,609	\$1,208,850

Patients of the Adult Anxiety Clinic of Temple and of the Anxiety Disorders Clinic of the New York State Psychiatric Institute who meet criteria for generalized social anxiety disorder at diagnostic interview receive single-blind treatment with the selective serotonin reuptake inhibitor paroxetine for 12 weeks. Patients with minimal or better response are then randomly assigned to receive either 16 additional weeks of treatment with paroxetine or 16 weeks of paroxetine plus cognitive-behavioral therapy. Responding patients are followed for an additional 6 months. Comprehensive assessments of symptoms and functional impairment are conducted repeatedly for the length of the study. This study is one of the few large-scale investigations of combined pharmacotherapy and psychotherapy for this disabling anxiety disorder and one of the few collaborations between psychologists and physicians in the evaluations of anxiety disorders.

12. Richard Heimberg. National Institute of Mental Health – Emotion Regulation Therapy for Generalized Anxiety.

Start Date	End Date	Direct Cost	Indirect Cost	Total
06/06	05/09	\$458,179	\$182,090	\$640,269

Patients of the Adult Anxiety Clinic of Temple who meet criteria for generalized anxiety disorder will receive open treatment that is an integration of cognitive behavioral therapy and techniques designed to enhance their ability to self-regulate their emotional experience. After a round of protocol revision following the open trial, this newly developed treatment will be evaluated in a randomized controlled clinical trial in comparison to a modified assessment control. The treatment manual will then be modified again in light of the results of the randomized controlled trial. The research team will be aided at each step in the process of protocol development by a team of consultants expert in psychotherapy integration and emotion-focused therapy as well as cognitive behavioral treatment.

13. Kathy Hirsh-Pasek. Collaborators at University of Pennsylvania and University of Delaware. National Institutes of Health – Space and Language Grant.

Start Date	End Date	Direct Cost	Indirect Cost	Total
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08/01/06	08/01/11	\$245, 599	\$122, 799	\$368,398
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How do children learn verbs and other relational terms like prepositions? This proposal examines this question by asking how humans conceptualize and communicate information about spatial events – the foundation for event processing and verb learning. An understanding of these processes opens a gateway to world to word mapping and eventually to the development of grammar. What links perception, conception and communication about space? We test the hypothesis that, during development, dynamic spatial events are decomposed into manner (how something moves) and path (where something moves) information and that that the neural instantiation of spatial events is also decomposed into these two primitives. Equipped with the building blocks for event structure, children and adults can map combinations of these units onto their native language.

14. Kathy Hirsh-Pasek. Collaboration with Dr. Tom Shipley and the University of Delaware. National Institutes of Health – Space and Language Grant.

Start Date	End Date	Direct Cost	Indirect Cost	Total
06/01/07	06/01/10	\$ 176, 000	\$ 88,000	\$264,000

The central aim of this proposal is to characterize how humans conceptualize information about spatial events. Conceptual development depends on noting how objects interact and move relative to one another. We know precious little about how adults, let alone infants, conceptualize dynamic events. This knowledge is central to how we perceive events and how we learn and use language to talk about events. We focus on paths of moving objects to investigate the perceptual bases for spatial event segmentation.

15. Julia Mendez. Department of Health and Human Services - Adaptation and Evaluation of a Parenting Intervention with Families of English Language Learners attending Head Start.

Start Date	End Date	Direct Cost	Indirect Cost	Total
10/30/07	10/29/10	\$374,896	\$97,473	\$472,369

The proposed project objectives are in response to Head Start’s mission of promoting family involvement and home–school collaboration in order to enhance English Language Learner children’s early learning and development. This proposal outlines a plan for implementing a parenting intervention that exposes ELL families to the educational, mental health, and family involvement components of Head Start contained within the National Performance Standards. The manualized curriculum is designed to offer parents hands-on experience with educational activities that take place within their children’s Head Start classrooms, in order to promote increased parent-child interaction at home and parent involvement in school. The twelve-week Parent Excellence Series will be delivered to small groups of Head Start parents via a bilingual facilitator and a co-facilitator familiar with Head Start (e.g. teacher or family partner). During year one, the intervention will be adapted for use with specific populations of ELL families. Years two and three will be used to evaluate the program using a randomized design to determine effects of the program on key stakeholders and participants, including children,

parents, and teachers. Additional project objectives involve replication of the intervention procedures with a sample from a different Head Start program partner and conducting cultural factors research. Specifically, psychometric properties of newly adapted and existing measures for bilingual populations will be evaluated and concurrent validation studies are planned. In addition, the impact of cultural variation in family attitudes towards school readiness, acculturation, and key child and parent covariates will be assessed in relation to children's school readiness outcomes. This project will sample 40-50 ELL children per year who are members of primarily Spanish-speaking or Turkish-speaking families, for a total sample of 150 bilingual children and families.

16. Philip Kendall. NIMH Process as a Predictor of Outcomes in Child Anxiety Treatment.

Start Date	End Date	Direct Cost	Indirect Cost	Total
7/1/02	4/30/08	\$750,000	\$378,000	\$1,128,000

This research on the “process” of child therapy will involve multiple studies of various “in session” variables. Videotapes of CBT treatment provided for youth will be examined and coded by reliable and blind coders. Previously conducted randomized clinical trials provided evidence that the CBT resulted in significant beneficial treatment gains for roughly 2/3s of the participants and the videotaped sessions from these outcome evaluations will be the focus of the process studies. The process studies are designed to examine specific within session events (e.g. child behavior, therapist behavior, treatment characteristics) and interactive factors that are predictive of a favorable treatment outcome.

17. Philip Kendall. NIMH Child and Adolescent Multimodal Study.

Start Date	End Date	Direct Cost	Indirect Cost	Total
7/01/01	6/30/08	\$1,000,000	\$505,000	\$1,505,000

This project is a multisite randomized clinical trial to compare psychosocial treatment (CBT developed at Temple University), medications, their combination, and a placebo control in the treatment of anxiety disorders in youth ages 7-17. Collaborating sites, in addition to Temple, include Columbia, Duke, Johns Hopkins, NYU, UCLA, and WPI.

18. Peter Marshall (PI) and Thomas Shipley (Co-PI). NSF - A developmental social neuroscience approach to perception-action relations.

Start Date	End Date	Direct Cost	Indirect Cost	Total
08/07	08/10	291,532	145,767	437,299

This award is funding the development of tasks for the assessment of mirror neuron system (MNS) function in infants and preschoolers, using a combination of electrophysiological techniques and behavioral measures. One aim of the grant is to test whether individual differences in measures of MNS function are related to individual differences in measures of early social cognition. This work is being done in collaboration with Thomas F. Shipley (co-PI),

also in the Department of Psychology.

19. Peter Marshall (PI) and Thomas Shipley (Co-PI). NSF - A developmental social neuroscience approach to perception-action relations (supplement to main award above).

Start Date	End Date	Direct Cost	Indirect Cost	Total
10/07	10/10	58,238	29,119	87,537

This grant is a supplement the NSF award above, and will fund a collaboration with Andrew Meltzoff at the University of Washington. Specifically, this supplemental funding will support the development of tasks for use in infants and preschoolers which combine the use of EEG measures of mirror neuron system activation with well-established behavioral tasks tapping into early imitative abilities.

20. Nora Newcombe. NSF – University of Chicago, Understanding and Teaching Social Competence.

Start Date	End Date	Direct Cost	Indirect Cost	Total
11/06	11/07	\$85,780	\$43,274	\$129,054

Focuses on the acquisition of spatial representation and reasoning. Three aspects of spatial intelligence are paramount in our research. First, we consider how spatial expertise can be enhanced directly by training the mental processes that operate on spatial representations. Second, we examine how spatial expertise can be enhanced through maps and language - two systems of symbolization that are pervasive in our culture. Third, we look at how spatial learning can be promoted by applying measurement and graphs - two critical spatial tools - to quantitative information.

21. Nora Newcombe. NSF-BSC - Geometric features of spatial competence.

Start Date	End Date	Direct Cost	Indirect Cost	Total
08/04	07/08	\$149,900	\$75,450	\$224,950

This research will address two areas. First, the nature of geometric sensitivity is not yet clear. We will address two questions: how geometric coding is related to representations of viewer position, and whether information about the lengths of the sides of a space is retained in an absolute way (as some mental equivalent of a measured distance) or in a relative fashion (as some lengths being simply longer or shorter than others). Second, there is doubt about the claim that geometric information is encapsulated and the associated idea that landmarks are not integrated with geometric information unless language is used to link cognitive modules. An alternative account holds that geometric and featural information are normally integrated in a way that depends on the relative usefulness of various kinds of information in particular situations. This research project will contrast these accounts.

22. Nora Newcombe. NSF- Spatial Intelligence and Learning Center (SILC).

Start Date	End Date	Direct Cost	Indirect Cost	Total
09/01/2006	08/31/2011	\$14,131,073	\$1,590,330	\$15,721,403

SILC aims to understand spatial learning and to use this knowledge to develop programs and technologies that will transform educational practice and support the capability of all children and adolescents to develop the skills required to compete in a global economy. The core theme of SILC is that spatial cognition is malleable, and hence that spatial learning can be fostered by effective technology and education, a position based on recent evidence from multiple sources. Achieving our goals is only possible within a Center that can marshal the collaborative and synergistic efforts of researchers from several different disciplines, resources that extend to several institutions, and duration of effort that extends beyond the usual project boundaries. SILC involves a consortium of researchers from cognitive science, spanning psychology, computer science, education, and neuroscience. In addition, we have practicing geoscientists and engineers who are particularly interested in spatial thinking in their fields. SILC center sites include: Temple University, University of Chicago, Northwestern University, and the University of Pennsylvania.

23. Ingrid Olson. NIMH – Brain and Behavior of Visual Expectations.

Start Date	End Date	Direct Cost	Indirect Cost	Total
2005	2009	\$1,000,000	\$570,000	\$1,570,000

This grant is aimed at understanding preparatory and mnemonic functions of the human posterior parietal lobe.

24. Laurence Steinberg. MacArthur Foundation - Research Network on Adolescent and Juvenile Justice.

Start Date	End Date	Direct Cost	Indirect Cost	Total
1/01/02	12/31/2007	\$5,600,000.00	None	\$5,600,000

This grant supports a national initiative designed to inform justice system policy and practice concerning juvenile offenders through empirical, legal, and conceptual analyses. Dr. Steinberg directs the Network, with includes 15 other individuals who are social scientists, legal scholars, or legal practitioners

25. Laurence Steinberg. University of Pittsburgh (from OJJDP) - Pathways to Desistance.

Start Date	End Date	Direct Cost	Indirect Cost	Total
1/30/06	12/31/07	\$383,715	\$191,856	\$575,571

Dr. Steinberg co-directs a two-city (Philadelphia and Phoenix) study of juvenile felons that is tracking 1,350 individuals over time to see what happens to them as they enter, move through, and exit the justice system. This study, which is coordinated out of the University of Pittsburgh,

is funded by several grants, most of which are made directly to the University of Pittsburgh.

26. Laurence Steinberg. University of Pittsburgh (from NIDA) - Pathways to Desistance.

Start Date	End Date	Direct Cost	Indirect Cost	Total
7/1/05	6/30/10	\$916,609	\$398,064	\$1,314,673

27. Laurence Steinberg. University of Pitt (from OJJDP) – Pathways to Desistance, Supplement.

Start Date	End Date	Direct Cost	Indirect Cost	Total
9/1/07	8/31/08	\$33,333	\$16,667	\$50,000

28. Laurence Steinberg (PI); Marsha Weinraub (Co-PI). NICHD – NICHD Study of Early Child Care Phase IV.

Start Date	End Date	Direct Cost	Indirect Cost	Total
1/1/06	12/31/07	\$558,807	\$279,130	\$838,210

This is an age 15 follow-up of the sample of children followed from birth in the NICHD Study of Early Child Care and Youth Development (SECCYD). The study involves 10 sites across the country and is funded by the National Institute of Child Health and Human services (NICHD) at the National Institutes of Health. In 1991, about 1300 infants and their families were enlisted in the ten sites; 136 families make up the Philadelphia sample. Our staff at the Temple University site has followed these children and their families through visits to their homes, child care setting, schools, family visits to our laboratory, and phone interviews several times each year. Initially conceived as a large scale study of the impact of child care on cognitive, language and social development, health and academic achievement, and family functioning, the SECCYD has evolved into the most detailed long-term longitudinal study of American children ever conducted.

29. Laurence Steinberg. MacArthur Foundation – Pathways to Desistance, Supplement.

Start Date	End Date	Direct Cost	Indirect Cost	Total
1/1/06	12/31/08	\$1,500,000	None	\$1,500,000

30. Laurence Steinberg (PI); Jason Chein (Co-PI). NIDA - Peer Effects on Neural and Behavioral Markers of Risk-Taking.

Start Date	End Date	Direct Cost	Indirect Cost	Total
10/01/06	9/30/09	\$666,210	\$333,105	\$999,315

This study uses fMRI to examine age differences in patterns of brain activity with and without exposure to peer influence during a series of decision-making tasks.

31. Laurence Steinberg. MacArthur Foundation - Models for Change Research Initiative.

Start Date	End Date	Direct Cost	Indirect Cost	Total
3/1/07	2/28/08	\$600,000	None	\$600,000

This provides support for a series of research studies examining the impact of the MacArthur Foundation's activities designed to reform juvenile justice policy and practice in Illinois, Louisiana, Pennsylvania, and Washington.

32. Marsha Weinraub (PI); Anne Shlay (Co-PI); PA Department of Education, Office of Commonwealth Libraries - One Book, Every Young Child: An Evaluation of the Second Year.

Start Date	End Date	Direct Cost	Indirect Cost	Total
1/1/2007	12/31/07	\$110,000	none	\$110,000

In March 2007 the Pennsylvania Department of Education, Office of Commonwealth Libraries launched the second annual 'One Book, Every Young Child' project. The goal of this project is to increase young children's exposure to and experiences with books in the interest of promoting children's early literacy skills throughout the state. This evaluation will document the program's efforts and conduct a comparative assessment of child and family care provider and parent literacy-related activities in three counties before and after delivery of the library outreach programs. Pre and post program changes in the literacy activities of child care providers and parents who received the program in two counties during the Week of the Young Child are compared to pre and post literacy activities of child care providers and parents in the one county in which program delivery have been delayed until the fall. Differential changes in providers and caregivers between the libraries receiving the intervention and the libraries in the county not receiving the intervention are assessed.

33. Diana Woodruff-Pak. National Institute on Aging - Mechanisms of associative learning in aging: Mouse models.

Start Date	End Date	Direct Cost	Indirect Cost	Total
4/01/06	3/31/10	1,536,552	421,346	1,957,898

Anatomical and electrophysiological correlates of age-related impairment in learning and memory.

34. Diana Woodruff-Pak. National Institute on Aging - Aging and sites of action of cognition-enhancing drugs.

Start Date	End Date	Direct Cost	Indirect Cost	Total
5/01/04	4/30/09	1,025,000	403,085	1,428,085

Sites of nicotinic acetylcholine receptor activation in drugs facilitating learning in young and

older rabbits.

35. Hongling Xie. William T. Grant Foundation - Transition to Middle School: Changes in aggression.

Start Date	End Date	Direct Cost	Indirect Cost	Total
09/01/05	08//31/08	\$219,545	\$32,932	\$252, 477

Examines changes in school peer social dynamics during the transition to middle school and how such changes may be related to adolescents' experience of various forms of aggression and victimization (physical, social, and verbal) in school.

36. Hongling Xie. NSF – Transition to Middle School: Changes in aggression, popularity, and peer social dynamics.

Start Date	End Date	Direct Cost	Indirect Cost	Total
09/01/04	08//31/08	\$171,233	\$78,767	\$250,000

Examines changes in school peer social dynamics during the transition to middle school and how such changes may be related to adolescents' experience of various forms of aggression and victimization (physical, social, and verbal) in school.

GRADUATE STUDENT GRANTS

37. Julia Parish. NSF Graduate Research Fellowship - The Role of Social Intention in Word Learning.

Start Date	End Date	Stipend	Tuition	Total
09/01/05	08/31/08	\$90,000	\$31,500	\$121,500

38. Erica Sood. NIMH – Anxiety and Help Seeking Behaviors.

Start Date	End Date	Direct Cost	Indirect Cost	Total
9/28/07	9/27/08	\$29,624	None	\$29,624

This project examines parents' judgments about child anxiety and help seeking in relation to cultural factors.

TOTAL: 46,555,403.40