

James Yi, M.D., Ph.D.

<u>Education:</u>	1997-00	B.A. Cornell University (Biology, concentration in genetics)
	2001-08	M.D. Temple University School of Medicine
	2001-08	Ph.D. Temple University School of Medicine (Molecular Biology and Genetics)

Postgraduate Training and Fellowship Appointments:

2008-09	Intern in Psychiatry, Department of Psychiatry, Johns Hopkins Bayview Hospital, Baltimore, MD
2009-11	Resident in Psychiatry, Department of Psychiatry, Johns Hopkins Hospital, Baltimore, MD
2011-13	Fellow in Child and Adolescent Psychiatry, Department of Child and Adolescent Psychiatry, Children's Hospital of Philadelphia, Philadelphia, PA
2013-15	NIH T32 Postdoctoral Fellow in Neuropsychiatry, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
2015-16	Postdoctoral Fellow in Immunology, Research Institute, Children's Hospital of Philadelphia, Philadelphia, PA

<u>Faculty Appointments:</u>	2015-2016	Adjunct Assistant Professor, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
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Hospital and Administrative Appointments:

2013-2016	Attending Physician, Department of Child and Adolescent Psychiatry, Children's Hospital of Philadelphia, Philadelphia, PA
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Other Appointments:

2013-2016	Member, Biomedical Postdoctoral Program, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
2013-2016	Member, Penn Institute for Translational Medicine and Therapeutics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

<u>Specialty Certification:</u>	2012-present	Diplomate in Psychiatry, American Board of Psychiatry and Neurology
	2013-present	Diplomate in Child and Adolescent Psychiatry, American Board of Psychiatry and Neurology

Licensure: 2011-Present Pennsylvania
2008-2011 Maryland

Awards, Honors and Membership in Honorary Societies:

1997	AP Scholar with Honors
1999	400 Club, Cornell University (4.0 GPA and Varsity Athlete)
2000	<i>Magna Cum Laude</i> , Cornell University
2000	Distinction in All Subjects, Cornell University
2000	Accelerated graduation, Cornell University (3 years)
2013	Top Poster Finalist, Society of Biological Psychiatry
2013	Chief Resident in Inpatient Services, Children's Hospital of Philadelphia
2013	Elizabeth B. Weller, MD Distinguished Fellow Award, Children's Hospital of Philadelphia
2013	NIH Loan Repayment Awardee
2015	Recipient, L. Morten Morley Fund of the Philadelphia Foundation (Research Award)
2015	NIH Loan Repayment Award (Competitive Renewal)

Memberships in Professional and Scientific Societies and Other Professional Activities:

International: The International 22q11 Brain Behavior Consortium (Member, 2013-2016)
The 22q11.2 Society (Founding Member, 2014-2016)
International Behavioural and Neural Genetics Society (Member, 2013-2016)

National: American Psychiatric Association (Member, 2008-2011)
American Academy of Child and Adolescent Psychiatry (Member, 2011-present)
Society of Biological Psychiatry (Member, 2013-2016)

Local: Philadelphia Psychiatric Society (Member, 2011-present)
Regional Council of Child and Adolescent Psychiatry of Eastern Pennsylvania and Southern New Jersey (Member, 2011-present)

Ad Hoc Reviewerships:

2015	Schizophrenia Bulletin
2015	Journal of Clinical Psychiatry
2015	Journal of the International Neuropsychological Society
2015	Journal of Pediatrics

Academic and Institutional Committees:

2012-13	Resident Member, Inpatient Safety and Restrain Committee, Children's Hospital of Philadelphia, Philadelphia, PA
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Major Academic and Clinical Teaching Responsibilities:

1. Teaching assistant to 4-5 undergraduate students per week in an Introductory Genetics class, Department of Genetics and Development, Cornell University, 1999-00

2. Supervise 1-2 Child and Adolescent Psychiatry fellows or 4th year medical students in an outpatient 22q11DS neuropsychiatric clinic, Department of Child and Adolescent Psychiatry, Children's Hospital of Philadelphia, 2013-present
3. Lecturer, "The 22q11.2 Deletion Syndrome: Neuropsychiatric Features," Department of Child and Adolescent Psychiatry, Children's Hospital of Philadelphia, (April 9, 2015)
4. Lecturer, "The 22q11.2 Deletion Syndrome: A unique development model for psychopathology," Department of Child and Adolescent Psychiatry, Children's Hospital of Philadelphia, (April 16, 2015)
5. Lecturer, "Brain and Cognitive Development," Department of Child and Adolescent Psychiatry, Children's Hospital of Philadelphia, (July 23, 2015)
6. Lucy Gao, University of Pennsylvania Scholar's Program, University of Pennsylvania, (2013-2016)

Lectures by Invitation:

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| June 20, 2014 | "Psychiatric burden in 22q11.2 deletion syndrome" – The 9 th Biennial International 22q11.2 Deletion Syndrome Meeting, Mallorca, Spain |
| October 30, 2015 | "Immunological Disorders and 22q11.2 Deletion Syndrome" – Previews From the Pipeline: A Data Blitz Featuring Early Career Investigators, The 62 nd Annual Meeting of American Academy of Child and Adolescent Psychiatry, San Antonio, Texas, USA |
| November 3, 2015 | "Understanding Psychosis Risk" – Faculty Candidate Seminar, Department of Child and Adolescent Psychiatry, Texas Children's Hospital, Houston, Texas, USA |
| January 20, 2016 | "A search for immune biomarkers of psychosis" – Lifespan Brain Institute (LiBI) Seminar, Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, USA |

Research Support:

1. NIMH 1K23MH108736-01
Role: PI
The project aims to longitudinally examine the immune markers in youths with clinical high risk for psychosis. This study will provide the foundation for identification of blood-based biomarkers and early immune mechanisms linked to schizophrenia that should facilitate development of novel early intervention treatments.

2. L. Morten Morley Fund of the Philadelphia Foundation
Role: Postdoctoral Research Fellow
This is an institutional supplement fund for physician scientist at the Children's Hospital of Philadelphia

Bibliography:

Research Publications, peer reviewed:

1. Argueso, JL, Smith, D, **Yi, JJ**, Waase, M, Sarin, S, & Alani, E. (2002). Analysis of conditional mutations in the *Saccharomyces cerevisiae* MLH1 gene in mismatch repair and in meiotic crossing over. Genetics, 160(3):909-921
2. Hennelly, M, **Yi, JJ**, Batkis, M, Chisolm, MS. (2011). Termination of pregnancy in two patients during psychiatric hospitalization for depressive symptoms and substance dependence. Psychosomatics, 52(5):482-485
3. **Yi, JJ**, Torres J, Azner Y, Vaidya P, Schiavi A, Reti IM. (2012). Flumazenil Pretreatment in Benzodiazepine-Free Patients: A Novel Method for Managing Declining ECT Seizure Quality. Journal of ECT, 28(3):185-189.
4. Tang SX, **Yi JJ**, Calkins ME, Whinna DA, Kohler CG, Souders MC, McDonald-McGinn DM, Zackai EH, Emanuel BS, Gur RC, Gur RE. (2013). Psychiatric disorders in 22q11.2 deletion syndrome are prevalent but undertreated. Psychological Medicine. 44(6):1267-1277.
5. Gur RE, **Yi JJ**, McDonald-McGinn DM, Tang SX, Calkins ME, Whinna D, Souders MC, Savitt A, Zackai EH, Moberg PJ, Emanuel BS, Gur RC. (2014). Neurocognitive development in 22q11.2 deletion syndrome: comparison with youth having developmental delay and medical comorbidities. Molecular Psychiatry, 19 (11):1205-1211.
6. **Yi JJ**, Tang SX, McDonald-McGinn DM, Calkins ME, Whinna DA, Souders MC, Zackai EH, Goldmuntz E, Gaynor JW, Gur RC, Emanuel BS, Gur RE. (2014). Contribution of congenital heart disease to neuropsychiatric outcome in school-age children with 22q11.2 deletion syndrome. American Journal of Medical Genetics Part B Neuropsychiatric Genetics. Mar; 165B(2):137-147.
7. Schmitt JE, **Yi JJ**, Roalf DR, Loevner LA, Ruparel K, Whinna D, Souders MC, McDonald-McGinn DM, Yodh E, Vandekar S, Zackai EH, Gur RC, Emanuel BS, Gur RE. (2014). Incidental radiological findings in the 22q11.2 deletion syndrome. American Journal of Neuroradiology. 35(11):2186-2191.
8. Tang SX, **Yi JJ**, Moore TM, Calkins ME, Kohler CG, Whinna DA, Souders MC, Zackai EH, McDonald-McGinn DM, Emanuel BS, Gur RC, Gur RE. (2014). Subthreshold psychotic symptoms in 22q11.2 deletion syndrome. Journal of American Academy of Child and Adolescent Psychiatry. Sep; 53(9):991-1000.

9. Schmitt JE, Vandekar S, **Yi JJ**, Ruparel K, Roalf DR, Whinna D, Souders MC, Satterwaite TD, Prabhakaran K, McDonald-McGinn DM, Zackai EH, Ruben RC, Emanuel BS, Gur RE. (2015). Aberrant cortical morphometry in the 22q11.2 deletion syndrome: towards an understanding of the neural substrates of psychosis. Biological Psychiatry. Jul; 78(2):135-143.
10. **Yi JJ**, Calkins ME, Tang SX, Kohler CG, McDonald-McGinn DM, Zackai EH, Savitt AP, Bilker WB, Whinna DA, Souders MC, Emanuel BS, Gur RC, Gur RE. (2015). Impact of psychiatric comorbidity and cognitive deficit on function in 22q11.2 deletion syndrome. Journal of Clinical Psychiatry, Oct; 76(10):e1262-e1270.
11. **Yi JJ**, Weinberger R, Moore TM, Calkins ME, Guri Y, McDonald-McGinn DM, Zackai EH, Emanuel BS, Gur RE, Gothelf D, Gur RC. (2015). Performance on a computerized neurocognitive battery in 22q11.2 deletion syndrome: A comparison between US and Israeli cohorts. Brain and Cognition, Jul; 106:33-41.
12. Weinberger R, **Yi JJ**, Calkins ME, Guri Y, McDonald-McGinn DM, Emanuel BS, Zackai EH, Ruparel K, Carmel M, Michaelovsky E, Weizman A, Gur RC, Gur RE, Gothelf D. (2016). Neurocognitive profile in psychotic versus nonpsychotic individuals with 22q11.2 deletion syndrome. Eur Neuropsychopharmacol, Oct; 26(10):1610-1618.
13. Schmitt JE, **Yi JJ**, Calkins ME, Ruparel K, Roalf DR, Cassidy A, Souders MC, Satterthwaite TD, McDonald-McGinn DM, Zackai EH, Gur RC, Emanuel BS, Gur RE. (2016). Disrupted anatomic networks in the 22q11.2 deletion syndrome. Neuroimage Clin, Aug; 12:420-428.
14. Tang SX, Moore TM, Calkins ME, **Yi JJ**, Savitt A, Kohler CG, Souders MC, Zackai EH, McDonald-McGinn DM, Emanuel BS, Gur RC, Gur RE. (2017). The Psychosis Spectrum in 22q11.2 deletion syndrome is comparable to that of nondeleted youths. Biol Psychiatry, Jul; 82(1):17-25.
15. Mekori-Domachevsky E, Guri Y, **Yi JJ**, Weisman O, Calkins ME, Tang SX, Gross R, McDonald-McGinn DM, Emanuel BS, Zackai EH, Zalsman G, Weizman A, Gur RC, Gur RE, Gothelf D. (2017). Negative subthreshold psychotic symptoms distinguish 22q11.2 deletion syndrome from other neurodevelopmental disorders: a two-site study. Schizophr Res, Oct; 188:42-49.
16. Tang SX, Moore TM, Calkins ME, **Yi JJ**, McDonald-McGinn DM, Zackai EH, Emanuel BS, Gur RC, Gur RE. (2017). Emergent, remitted and persistent psychosis-spectrum symptoms in 22q11.2 deletion syndrome. Transl Psychiatry, Jul; 7(7): e1180.
17. Gao L, Tang SX, **Yi JJ**, McDonald-McGinn DM, Zackai EH, Emanuel BS, Gur RC, Calkins ME, Gur RE. (2018). Musical auditory processing, cognition, and psychopathology in 22q11.2 deletion syndrome. Am J Med Genet B Neuropsychiatr Genet, Dec; 177(8): 765-773

Abstracts:

1. **Yi JJ**, Tang SX, Calkins ME, Kohler CG, McDonald-McGinn DM, Zackai EH, Savitt A, Moberg P, Whinna DA, Souders MC, Emanuel BS, Gur RC, Gur RE: Contribution of congenital heart disease to neuropsychiatric outcomes in 22q11DS. (Presented at the Society of Biological Psychiatry 68th Annual Scientific Meeting, San Francisco, CA, May 18, 2013)
2. **Yi JJ**, Tang SX, Calkins ME, Kohler CG, McDonald-McGinn DM, Zackai EH, Savitt A, Moberg P, Whinna DA, Souders MC, Emanuel BS, Gur RC, Gur RE. Neurocognitive correlates of psychopathology in 22q11.2 deletion Syndrome. (Presented at the Society of Biological Psychiatry 69th Annual Scientific Meeting, New York, NY, May 9, 2014)
3. Tang SX, **Yi JJ**, Moore TM, Calkins ME, Kohler CG, Whinna DA, Souders MC, Zackai EH, McDonald-McGinn DM, Emanuel BS, Bilker WB, Gur RC, Gur RE. Subthreshold psychotic symptoms in 22q11.2 deletion syndrome. (Presented at the Society of Biological Psychiatry 69th Annual Scientific Meeting, New York, NY, May 10, 2014)
4. Gur RE, **Yi JJ**, Schmidt J, Roalf DR, McDonald-McGinn D, Zackai E, Calkins ME, Ruparel K, Cassidy A, Port A, Souders M, Gur RC, Emanuel B. Aberrant brain development and psychosis in 22q11.2 deletion syndrome. (Presented at the 15th International Congress on Schizophrenia Research, Colorado Springs, CO, March 28-April 1, 2015)
5. Schmitt JE, Vandekar S, Roalf DA, Ruparel K, **Yi JJ**, McDonald-McGinn DM, Souders MC, Zackai EH, Emanuel BS, Gur RC, Gur RE. Disrupted Anatomic Connectivity in the 22q11.2 Deletion Syndrome. (Presented at the 53rd Annual Meeting of American Society of Neuroradiology, Chicago, IL, April 25-30, 2015)
6. Schmitt JE, Vandekar S, Roalf DA, Ruparel K, **Yi JJ**, McDonald-McGinn DM, Souders MC, Zackai EH, Emanuel BS, Gur RC, Gur RE. Functional Neuroanatomy in the 22q11.2 Deletion Syndrome: Towards an Understanding of the Neural Substrates of Psychosis. (Presented at the 53rd Annual Meeting of American Society of Neuroradiology, Chicago, IL, April 25-30, 2015)
7. **Yi JJ**, Weinberger R, Moore T, Guri Y, Calkins ME, Tang SX, Kohler C, McDonald-McGinn D, Zackai E, Souders M, Emanuel B, Gur RC, Gothelf D, Gur RE. Neurocognitive Performance on a Computerized Neurocognitive Battery in 22q11.2 Deletion Syndrome: A Comparison between the US and Israeli Cohorts. (Presented at the 70th Annual Scientific Meeting, Toronto, Canada, May 15, 2015)
8. **Yi JJ**, Weinberger R, Moore T, Guri Y, Calkins ME, Moss E, McDonald-McGinn D, Zackai E, Souders M, Emanuel B, Gur RC, Gothelf D, Gur RE. Association of Intelligence Quotient and Neurocognitive Performance on

Penn Computerized Neurocognitive Battery in 22q11.2 Deletion Syndrome. (Presented at the 16th Annual Research Symposia by Leadership Education in Neurodevelopmental and Related Disabilities, Philadelphia, PA, May 20, 2015)

9. **Yi JJ**, Gao L, McDonald-McGinn DM, Zackai EH, Gallagher S, Swenson A, Cassidy A, Peters K, Port A, Troyan S, Emanuel BS, Gur RE. Musicality in 22q11.2 Deletion Syndrome. (Presented at the 14th University of Pennsylvania Annual Biomedical Postdoctoral Research Symposium, Philadelphia, PA, October 17, 2015)
10. **Yi JJ**, Calkins ME, Tang SX, Gao L, McDonald-McGinn DM, Zackai EH, Souders M, Sullivan K, Gur RC, Emanuel BS, Gur RE. Association of Immunological Disorders to Psychopathology and Psychotic Features in 22q11.2 Deletion Syndrome. (Presented at the 62nd Annual Meeting of American Academy of Child and Adolescent Psychiatry, San Antonio, TX, October 30, 2015)

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. *Algon S, ***Yi JJ**, Calkins ME, Kohler C, Borgmann-Winter KE. (2012). Evaluation and Treatment of Children and Adolescents with Psychotic Symptoms. Current Psychiatry Reports, Apr; 14(2):101-110. *Contributed equally.
2. Kohler CG, Borgmann-Winter KE, Hurford I, Neustadter E, **Yi JJ**, Calkins ME. (2014). Is prevention a realistic goal for schizophrenia? Current Psychiatry Reports. Apr; 16(4):439. doi: 10.1007/s11920-014-0439-y.