

## **Kurtis Ian Auguste, M.D.**

Assistant Professor of Neurological Surgery  
University of California, San Francisco Children's Hospital  
Children's Hospital Oakland

### **CONTACT INFORMATION**

#### **San Francisco**

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### **EDUCATION**

M. D. UC San Francisco School of Medicine  
San Francisco, CA  
2001

B. A. Harvard University  
*cum laude*, Biology  
Cambridge, MA  
1996

Secondary Phillips Academy  
School Andover, MA  
1992

### **MEDICAL LICENSURE**

- Province of Ontario: CPSO #87354
- State of California: License #A82763

### **CLINICAL TRAINING**

- Pediatric Neurosurgery Fellowship July 1, 2007 – June 30, 2008  
Toronto Hospital for Sick Children, Ontario
- Neurosurgery Residency July 1, 2002 – June 30, 2007  
University of California, San Francisco
- Surgical Internship July 1, 2001 – June 30, 2002  
University of California, San Francisco

### **ACADEMIC APPOINTMENTS**

- Assistant Professor of Neurological Surgery: July 1, 2008 - present
  - University of California, San Francisco School of Medicine
- Director, Pediatric Epilepsy Surgery Program: July 1, 2008 - present
  - University of California, San Francisco School of Medicine
  - Children's Hospital and Research Center Oakland

## **HONORS**

- UCSF Harold Rosegay Resident of the Year Award, 2007
- AANS/CNS Hydrocephalus Association Award. 2006
- UCSF Class of 1956 Alumni Scholarship. 2000-01
- UCSF Lilly S. Krug Alberts Scholarship. 1998-9, 2000-01
- UCSF/SKB Foundation Scholarship. 1997-2001
- UCSF Scott Scholarship. 1999-2000
- Harvard Medical School Visiting Clerkship Program Scholarship. 2000
- SEP MedTeach & HealthTeach Award of Recognition. 1998
- Harvard Foundation for Intercultural and Race Relations Award. 1996
- Honors thesis in Biology, Harvard University. 1996
- Harvard University Dean's List. 1995-96
- Harvard College Scholarship. 1995-96
- OxBridge Academic Scholarship, Oxford University. 1992
- National Merit Scholarship Commendation. 1992
- Phillips Academy Honor Roll. 1989-92
- Phillips Academy Wells Prize. 1989

## **RESEARCH APPOINTMENTS**

- Principal Investigator/Site Director, Park-Reeves Syringomyelia Research Consortium.  
- February 1, 2011 - present

## **RESEARCH AWARDS**

- NINDS-NIH Post-graduate Research Supplement in Neuroscience. (to R01-NS34247) Children's Hospital, Harvard Medical School; Department of Neurology. Jun '96 to Aug '97
- Ford Foundation Research Grant. 1995
- Harvard College Dean's Summer Research Award. 1995
- Harvard Medical School Joint Program in Neonatology Research Internship. 1995

## **TRAVEL AWARDS**

- Project ALS Travel Fellowship, St. Kitts Biomedical Research Foundation, St. Kitts, West Indies. Summer 2000
- NINDS-NIH Travel Fellowship, Tsukuba, Japan. Summer 1997 and 1998, Christmas 1997
- NINDS-NIH Travel Fellowship for the Society for Neuroscience. Washington, DC, Nov 1996. New Orleans, LA, Nov 1997
- OxBridge Academic Programs, L'Académie de Paris, Paris, France. Summer 1994
- OxBridge Academic Programs, Oxford University, Oxford, England. Summer 1992, 1993

## **LEADERSHIP POSITIONS**

- UCSF Minority Mentorship Program. 2003-2007, 2009
- UCSF School of Medicine Committee on Clerkship Violence Prevention. 2000
- Association American Medical Colleges (AAMC), Office of Student Representatives; UCSF chapter representative. 1999-2000
- Student National Medical Association (SNMA) Co-chairperson; National SNMA House of Delegates Representative. 1998-99 \*UCSF voted SNMA Regional Chapter of the Year 1999
- Black Student Health Alliance (BSHA) Health Fair Coordinator. Southeast Health Center, Bayview-Hunter's Point, San Francisco, California. 1999
- UCSF Coalition for Diversity. 1998
- UCSF Black Caucus student liaison. 1997-98
- Student Committee for the Assessment of Teaching Effectiveness (SCATE). 1997-99

## **PROFESSIONAL COMMITTEE APPOINTMENTS**

- AANS/CNS Young Neurosurgeons Committee. 2004-2008
- AANS International Outreach Committee. 2006-2008
- UCSF Neurosurgery Resident Education Committee. 2003-2007, 2008-present
- UC San Francisco School of Medicine, Committee on Admissions. 1998-2001

## **OUTSIDE INTERESTS**

- Underrepresented minority recruitment
- Language study: Caribbean patois, Spanish
- Caribbean poetry recital
- Steel pan
- Soccer, golf, cycling, snowboarding

## **RECRUITMENT LECTURES**

- “Education is the Key to Success” Power for Living Ministries Youth Fair. Antioch, CA. Aug ‘09
- “Healthcare Careers.” 1<sup>st</sup> Annual Scientific Empowerment Movement Conference. San Francisco, CA. Apr, ‘07
- “Competitive Medical Specialties.” Student National Medical Association Medical Education Conference. San Francisco, CA. Apr, ‘07
- “Neurosurgery.” UCSF Medlink Minority Recruitment Lecture. San Francisco, CA. Aug, ‘06
- “Life of a Neurosurgery Resident.” Finding Your North. San Francisco, CA. Feb, ‘06  
\*featured at [http://www.findingyournorth.com/resources\\_interviews.htm](http://www.findingyournorth.com/resources_interviews.htm)
- UCSF MedTeach Minority Recruitment Conference. San Francisco, CA. Mar, ‘04
- “Writing the College Essay.” Everett Alvarez High School. Salinas, CA. Oct ‘99
- “Becoming a Premedical Student.” Everett Alvarez High School. Salinas, CA. Oct ‘99
- BSHA Black Health Education Day for African-American High School Students. Apr ‘97, ‘98, ‘99
- UCSF MedTeach lecturer. 1998-99
- UCLA School of Medicine Minority Pre-medical Recruitment Weekend. Feb ‘99
- Infusion One Elementary School Health Science Series. Oct ‘98
- UC Berkeley Black Student Health Association/SNMA Mentorship Program. Apr ‘98, Nov ‘98
- San Francisco Youth Guidance Center Juvenile Hall/SNMA health science lecture series. Mar ‘98
- San Francisco State University Minority Pre-medical Association. Mar ‘98
- Chicano Health Education Day for Chicano-American High School Students. Feb ‘97 and ‘98
- Harvard University Saturday Success Program for minority high school students. 1993-96

## **ACADEMIC LECTURES**

- “Lumbar Thecal Fenestration Can Prevent the Need for Ventriculoperitoneal Shunting in Pediatric Patients with Post-operative Hydrocephalus.” AANS/CNS Pediatric Neurosurgery Section Meeting. Cleveland, December, 2010.
- “Pediatric Head Injury” Neurosurgery Update in the Wine Country. Sonoma, CA. July, 2010
- “The Role of Asymmetric Gluteal Folds in Predicting Tethered Spinal Cord in Children.” AANS/CNS Pediatric Neurosurgery Section Meeting. Boston, MA. December 2009.
- “Preservation of Eloquent Cortex in Pediatric Epilepsy Patients: Invasive Grid Mapping.” Neurosurgery Update in the Wine Country. Napa, CA. July, 2009.
- “Current Surgical Treatment Strategies for the Management of Pediatric Epilepsy”
  - Santa Rosa, CA. August, 2008.
  - UCSF Pediatric Grand Rounds. January, 2009.
  - Marin, CA. March, 2009.
  - Vallejo, CA. April, 2009.
  - UCSF Epilepsy Symposium. May, 2009.

- Novato, CA November, 2009
- Madera, CA February 2010
- “The Evolving Role of Endoscopy for the Management of Giant Posterior Fossa Arachnoid Cysts in Children.” Robin P. Humphreys Lecture in Pediatric Neurosurgery. Toronto, Canada. June, 2008.
- “Neural Stem Cell Transplantation Strategies for the Treatment of Pediatric Traumatic Brain Injury.” Hospital for Sick Children, Trauma Surgery Grand Rounds. Toronto, Canada. May, 2008.
- “Intraventricular Hemorrhage in Children.” University of Toronto Neurosurgery Resident Lecture Series. Toronto, Canada. February, 2008.
- “Pediatric Epidermoid Tumors.” Hospital for Sick Children, Neuroscience Rounds. Toronto, Canada. July, 2007.
- “The Multiple Roles of Aquaporins in the Central Nervous System.” Mayo Clinic, Department of Neurosurgery Grand Rounds. December, 2007
- “Epidermoid Tumors in the Pediatric Population.” Toronto Hospital for Sick Children Neuroscience Conference. July, 2007
- “Greatly Impaired Migration of Implanted Aquaporin-4 Deficient Astroglial Cells in Mouse Brain Toward an Injury Site.” AANS/CNS Pediatric Neurosurgery Section Meeting. Denver, CO. November, 2006 & Washington, DC. April, 2007.
- “The Spectrum of Cerebrovascular Anomalies Encountered in PHACES Syndrome.” AANS/CNS Pediatric Neurosurgery Section Meeting. Denver, CO. November, 2006.
- “The Brain Death Exam.” UCSF School of Medicine Brain, Mind & Behavior Course. May, 2006.
- “The Weak Patient.” UCSF School of Medicine Brain, Mind & Behavior Course. May, 2006.
- “The Cranial Nerve Exam.” UCSF School of Medicine Brain, Mind & Behavior Course. May, 2006.
- “The Natural History of Arachnoid Cysts: Progression in Children Less Than 2 Years of Age.” AANS/CNS Pediatric Neurosurgery Section Meeting. Orlando, FL. November, 2005.
- “The Use of Intraoperative Transcranial Motor-evoked Potentials to Predict Outcomes as Compared to Adults during Pediatric Intramedullary Spinal Cord Tumor Resection.” Congress of Neurological Surgeons. Boston, MA. October, 2005.
- “The Cajal-Retzius Neuron: BDNF Regulation and Progenitor Cell Transplantation.” UCSF Neuroscience Interest Group. San Francisco, CA. October, 1998.
- “Neural Progenitor Transplantation into the Mutant Reeler Mouse.” RIKEN Tsukuba Seminar. The Institute of Physical and Chemical Research (RIKEN), Tsukuba Life Science Center. Tsukuba, Japan. July, 1998.
- “Neural Progenitor Transplantation into Newborn Reeler Cerebellum Complements Aspects of Mutant Lamination & Neuronal Survival by Reelin-Producing & Non-Reelin-Producing Processes.” Society for Neuroscience Reeler Workshop. New Orleans, LA. October, 1997.

## PUBLICATIONS

- D Englot, EF Chang, **KI Auguste**. “Vagus nerve stimulation for epilepsy: a meta-analysis of efficacy and predictors of response.” *J Neurosurg* (\*In press), 2011.
- D. Englot, EF Chang, **KI Auguste**, AM Molinaro, PE Tarapore, L Blevins, **KI Auguste**, N Gupta, S Kunwar, MK Aghi. “Rathke cleft cysts in pediatric patients: presentation, surgical management, and postoperative outcomes.” *Neurosurg Focus* Jul; 31(1): E3, 2011.

- **KI Auguste**, J Rutka. “Management of Pediatric Meningiomas.” *Meningiomas*. (\*Book chapter in press), 2011.
- A Jea, N Gupta, PP Sun and **KI Auguste**. “Pediatric Spine and Spinal Cord Tumors.” *Spine and Spinal Cord Tumors*. (\*Book chapter in press), 2011.
- D Drazin, **KI Auguste**, M Danielpour. Contemporary Dorsal Rhizotomy Surgery for the Treatment of Spasticity in Children. *Schmidek & Sweet: Operative Neurosurgical Techniques*, 6<sup>th</sup> ed. (\*Book chapter in press), 2011.
- EF Chang, DD Wang, **KI Auguste**, AJ Barkovich, T Tihan, PA Garcia, NM Barbaro. “Predictors of Seizure Freedom after Surgery for Malformations of Cortical Development.” *Annals of Neurol* (\*In press), 2011
- PE Tarapore, ME Sughrue, L Blevins, **KI Auguste**, N Gupta, S Kunwar. “Microscopic endonasal transsphenoidal pituitary adenectomy in the pediatric population.” *J Neurosurg Pediatrics* 7(5): 501-9, 2011.
- TA Cage, **KI Auguste**, M Wrench, YW Wu, N Gupta. Self-reported Functional Outcome after Surgical Intervention in Patients with Idiopathic Normal Pressure Hydrocephalus. *J Clin Neurosci* 18(5): 649-54, 2011.
- A Deipolyi, **KI Auguste**, I Yang, T Tihan, AT Parsa. “Occipital ganglioglioma in an older adult.” *J Clin Neurosci* 17(11): 1459-61, 2010.
- CP Hess, HJ Fullerton, DW Metry, BA Drolet, DH Siegel, **KI Auguste**, N Gupta, AN Haggstrom, IJ Frieden, AJ Barkovich. “Cervical and Intracranial Arterial Anomalies in 70 Patients with PHACE Syndrome.” *AJNR* Aug 12, 2010.
- N Sanai, **KI Auguste**, MT Lawton. “Microsurgical management of pediatric intracranial aneurysms.” *Childs Nerv Syst* 26(10): 1319-27, 2010.
- JA King, **KI Auguste** and AV Kulkarni. “Ventriculo-cystostomy and Endoscopic Third Ventriculostomy/shunt in the Management of Hydrocephalus Secondary to Giant Retocerebellar Cysts in Infancy.” *J Neurosurg: Pediatrics* 5(4): 403-7, 2010.
- JM Drake, J Riva-Cambrin, A Jea, **KI Auguste**, M Tamber, M Lamberti-Pasculli. “Prospective Surveillance of Complications in a Pediatric Neurosurgery Unit.” *J Neurosurg: Pediatrics* 5(6): 544-8, 2010.
- N Gupta, **KI Auguste**, MS Berger :”Current Surgical Management of Pediatric CNS Tumors.” In *Pediatric CNS Tumors*. Berlin: Springer-Verlag. 2010.
- R Bhardwaj, **KI Auguste**, PB Dirks and JT Rutka. “Management of Pediatric Brainstem Cavernous Malformations.” *J Neurosurg: Pediatrics* 4(5): 458-64, 2009.
- R Du, **KI Auguste**, CT Chin, JW Engstrom, PR Weinstein. “Magnetic Resonance Neurography for the Evaluation of Peripheral Nerve, Brachial Plexus, and Nerve Root Disorders.” *J Neurosurg* 112(2): 362-71, 2009.

- I. Al-Ahmed, **KI Auguste**, S Vachrajani, PB Dirks, JM Drake, JT Rutka. “Neurosurgical Management of Intracranial Epidermoid Tumors in Children.” *J Neurosurg: Pediatrics* 4(2): 91-96, 2009. {\*Cover article}
- **KI Auguste**, S Jin, K Uchida, D Yan, GT Manley, MC Papadopoulos, AS Verkman. “Greatly Impaired Migration of Aquaporin-4 Deficient Astroglial Cells after Implantation into Mouse Brain.” *FASEB J* 21: 1-9, 2007.
- **KI Auguste** and MW McDermott. “Salvage of Infected Craniotomy Bone Flaps with the Wash-in, Wash-out Indwelling Antibiotic Irrigation System. Technical Note and Case Series of 12 Patients.” *J Neurosurg* 105(4): 640-644, 2006.
- **KI Auguste**, C Chin, FL Acosta, CP Ames. “Expandable Cylindrical Cages in the Cervical Spine: A Review of 22 Cases.” *Journal of Neurosurg: Spine* 4: 285-291, 2006.
- O Bloch, **KI Auguste**, GT Manley, AS Verkman. “Accelerated Progression of Kaolin-Induced Hydrocephalus Aquaporin-4-deficient Mice.” *J Cereb Blood Flow Metab* March 22: 1-11, 2006.
- AS Verkman, DK Binder, O Bloch, **KI Auguste**, M Papadopoulos. “Three distinct roles of aquaporin-4 in brain function revealed by knockout mice.” *Biochim Biophys Acta* 1758(8): 1085-93, 2006.
- **KI Auguste** and N Gupta. “Pediatric Intramedullary Spinal Cord Tumors.” *Neurosurg Clin N Am* 17(1): 51-61, 2006.
- ML Ware, **KI Auguste**, PP Sun. “Traumatic Injuries of the Pediatric Craniocervical Junction.” In Brockmeyer D (ed) *Advanced Pediatric Craniocervical Surgery*. Thieme, 2006.
- **KI Auguste**, ML Ware, MT Lawton. “Nonsaccular Aneurysms of the Azygos Anterior Cerebral Artery.” *Neurosurg Focus* 17(5): E12, 2004.
- **KI Auguste**, A Quinones-Hinojosa, MS Berger. “Efficacy of mechanical prophylaxis for venous thromboembolism in patients with brain tumors.” *Neurosurg Focus* 17(4): Article 3, 2004.
- GE Vates, **KI Auguste**, MS Berger. “Hemangioblastomas.” In Berger MS and Prados MD (eds). *Textbook of Neuro-Oncology*. Philadelphia, Saunders, 2004.
- **KI Auguste**, A Quinones-Hinojosa, Gadkary, C.Zada, G.Lamborn, K. R., MS Berger. “The incidence of venous thromboembolism in patients undergoing craniotomy and motor mapping for glioma without contralateral intraoperative mechanical leg prophylaxis.” *J Neurosurg* 99(4): 680-4, 2003.
- A Quinones-Hinojosa, **KI Auguste**, MT Lawton. “Unusual venous drainage of an arteriovenous malformation. Case illustration.” *J Neurosurg* 98 (3): 642, 2003.
- MA Marconi, KI Park, YD Teng, J Ourednik, V Ourednik, RM Taylor, AE Marciniak, MM Daadi, Rose, R Langer, **KI Auguste**, MB Lachyankar, CR Freed, DE Redmond, RL Sidman, EY Snyder. “Neural Stem Cells: In Vivo to In Vitro and Back Again - Practical Aspects.” In Sell S (ed). *Stem Cells Handbook*, pp191-209. Portland, Human Pr., 2003.

- KI Park, J Ourednik, V Ourednik, RM Taylor, KS Aboody, **KI Auguste**, MB Lachyankar, DE Redmond, EY Snyder. “Global gene and cell replacement strategies via stem cells.” *Gene Ther* 9:613-624, 2002.
- **KI Auguste**, A Quinones-Hinojosa, MT Lawton. “The tandem bypass: subclavian artery-to-middle cerebral artery bypass with dacron and saphenous vein grafts. Technical case report.” *Surg Neurol* 56:164-169, 2001.
- GE Vates, **KI Auguste**, MT Lawton. “Fusiform, Dolichoectatic and Dissecting Aneurysms: Diagnosis and Management.” In LeRoux JP and Winn HR (eds). *Diagnosis and Management of Cerebral Aneurysms*. Philadelphia, Harcourt Health Sciences, 2001.
- V Ourednik, J Ourednik, KI Park, YD Teng, KS Aboody, **KI Auguste**, RM Taylor, BA Tate, EY Snyder EY. “Neural stem cells are uniquely suited for cell replacement and gene therapy in the CNS.” *Novartis Found Symp* 231:242-262, 2000.

## ABSTRACTS

- I Al-Ahmed, **KI Auguste**, JT Rutka. “Pediatric Epidermoid Tumors.” Congress of Canadian Neurological Sciences Federation. Victoria, BC. June, 2008
- **KI Auguste**, I Al-Ahmed, JT Rutka. “Unilateral Intraorbital Optic Pathway Gliomas in Children with Neurofibromatosis Type-1.” Canadian Neuro-Oncology Meeting. Banff, AB. May, 2008
- **KI Auguste**, S Jin, K Uchida, D Yan, GT Manley, MC Papadopoulos, AS Verkman. “Greatly Impaired Migration of Aquaporin-4 Deficient Astroglial Cells after Implantation into Mouse Brain.” Pediatric Neurosurgery Section Meeting. Denver, CO. November, 2006
- **KI Auguste**, B Davis, D Metry, HJ Fullerton, VL Perry, PP Sun, C Dowd, AJ Barkovich, I Frieden, N Gupta. “The Spectrum of Cerebrovascular Anomalies Encountered in PHACES Syndrome.” Pediatric Neurosurgery Section Meeting. Denver, CO. November, 2006.
- **KI Auguste**, N Gupta. “Mapping Speech Cortex in Children with Implanted Subdural Grids.” Pediatric Neurosurgery Section Meeting. Orlando, FL. November, 2005.
- **KI Auguste**, N Gupta, M Eastham. “Management of a Pediatric Patient with Complex Skull and Cervical Spine Fractures using a Modified Halo Brace.” Pediatric Neurosurgery Section Meeting. Orlando, FL. November, 2005.
- **KI Auguste**, CP Ames. “Expandable Cylindrical Cages for Cervical Corpectomy.” American Association of Neurological Surgeons. April, 2005.
- **KI Auguste**, A Quinones-Hinojosa, Gadkary, C.Zada, G.Lamborn, K. R., MS Berger. “The incidence of venous thromboembolism in patients undergoing craniotomy and motor mapping for glioma without contralateral intraoperative mechanical leg prophylaxis.” American Association of Neurological Surgeons, 2002.
- **KI Auguste**, K Nakajima, K Mikoshiba, EY Snyder. “Neural Progenitors can Differentiate into Cajal-Retzius Neurons.” Society for Neuroscience. Nov 2000.
- **KI Auguste**, K Nakajima, T Miyata, M Ogawa, K Mikoshiba, EY Snyder. “Neural Progenitor Transplantation into Newborn Reeler Cerebellum May Rescue Certain Aspects of Mutant Cytoarchitecture.” Society for Neuroscience. 22(1), 484; 1996.
- R Du, **KI Auguste**, C Chi, J Engstrom, P Weinstein. “Magnetic Resonance Neurography for the Evaluation of Patients with Spinal and Peripheral Nerve Pathologies.” Congress of Neurological Surgeons. October, 2005.

## ACKNOWLEDGMENTS

- A Quinones-Hinojosa, E Chang, SA Khan, MW McDermott. “Isolated Trigeminal Nerve Sarcoid Granuloma Mimicking Trigeminal Schwannoma: Case Report.” Neurosurgery 52: 700-705, 2003.
- T Nagai, J Aruga, O Minowa, T Sugimoto, Y Ohno, T Noda, K Mikoshiba. “Zic2 regulates the kinetics of neurulation.” Proc Natl Acad Sci 2000 Feb 15; 97(4):1618-23.



