# CHRISTEN A. CARSON, PH.D., ABPP

Clinical and Forensic Psychology Board Certified in Forensic Psychology Board Certified in Couple and Family Psychology

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# EXPERT AFFIDAVIT OF CHRISTEN A. CARSON, PHD, ABPP

I, Dr. Christen A. Carson, state that the following is true to the best of my knowledge, information, and belief:

- 1. I am a clinical and forensic psychologist in private practice in Seattle, Washington. I am the past-president of the Washington State Psychological Association.
- 2. I am Board Certified in Forensic Psychology by the American Board of Professional Psychology and a Faculty Member of the American Board of Forensic Psychology.
- 3. I am Board Certified in Couple and Family Psychology by the American Board of Professional Psychology and President-Elect of the American Board of Couple and Family Psychology.
- 4. Among other areas, I specialize in juvenile and adult sentencing mitigation. I have completed over 100 forensic evaluations and provided oral testimony approximately 40 times.
- 5. I am serving as a clinical case consultant for the Federal Judicial Center Center for Law Brain and Behavior workshop: *Science-Informed Decision-Making* (Harvard Law School, June 2024).
- 6. I have provided regional and national training, including for the American Board of Forensic Psychology (Portland, Oregon), the Association of Family and Conciliation Courts (AFCC), and an upcoming workshop on youthful sentencing considerations at the national American Psychological Association (APA) conference (Seattle, Washington, August 2024).
- 7. A current copy of my Curriculum Vitae is attached as Exhibit "A."
- 8. The statements below are based on my education and training regarding adolescent brain development and its relationship to criminal offending.

- 9. The science of adolescent brain development has significant implications for the culpability of youth involved in the criminal justice system.
- 10. Offense behavior and decision-making exhibited by an individual before their mid-20s reflects the neurodevelopmentally limited capabilities of a brain still growing and maturing. Decades of neurodevelopmental research has concluded: "It is well established that the brain undergoes a 'rewiring' process that is not complete until approximately 25 years of age."<sup>1</sup> By rewiring, neuroscientists mean that intricate connections are formed and pruned throughout adolescence and young adulthood, during which time the full capabilities of the brain—from decision-making to emotional regulation—are steadily cultivated. A brain in adolescence or late adolescence (ages 18 through the early 20s) is one still in progress.
- 11. Youth between the ages of 18 and the early 20s are more similar to younger adolescents than adults in their brain development, primarily in terms of reduced capacity for emotional regulation, judgment, and risk appraisal. These reduced capabilities are particularly evident in contexts of "hot cognition."<sup>2</sup> When late adolescents are in situations of hot cognition, their mental processing of information is adversely impacted by strong emotions, immediacy, and stress. Unsurprisingly, much youthful criminal or illegal behavior is perpetrated in such hot cognition contexts.
- 12. A hallmark sign of immaturity in adolescence is "sensation-seeking." Sensation-seeking is evidenced when individuals exhibit a strong desire to seek out intense, exciting experiences with decreased regard for risk. Data indicate that sensation-seeking peaks around age 19, while the capacity for self-regulation—a behavior that opposes sensation-seeking develops gradually throughout adolescence and plateaus around the mid-20s<sup>3</sup>.
- 13. The reduced sensation-seeking and increased ability to self-regulate demonstrated by adults flow from the progressive development and wiring of the prefrontal cortex. The prefrontal cortex and related networks are responsible for executive functioning, including impulse control and modulation of emotions. The maturation of the prefrontal cortex and its associated networks over the course of adolescence and young adulthood accounts for improvements in a wide variety of domains, from planning and strategizing to the modulation of intense emotions and focusing of attention. These domains are essential to the regulation of emotion and well-reasoned decision making.

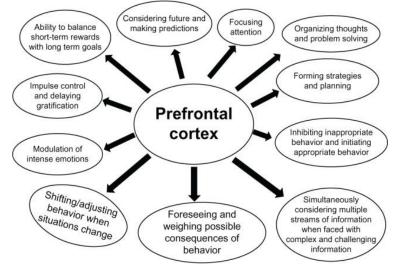
<sup>&</sup>lt;sup>1</sup> Arain, M., Haque, M., Johal, L., Mathur, P., Nel, W., Rais, A., Sandhu R., & Sharma, S. (2013). Maturation of the adolescent brain. *Neuropsychiatric disease and treatment*, *9*, 449.

<sup>&</sup>lt;sup>2</sup> Casey, B. J., Taylor-Thompson, K., Rubien-Thomas, E., Robbins, M., & Baskin-Sommers, A. (2020). Healthy Development as a Human Right: Insights from Developmental Neuroscience for Youth Justice. https://doi.org/10.1146/annurev-lawsocsci-101317-031101

<sup>&</sup>lt;sup>3</sup> Steinberg et al. (2017). Around the world, adolescence is a time of heightened sensation seeking and immature self-regulation. *Developmental Science*. 21(2), e12532.

- 14. Adolescent and late-adolescent *neurological* immaturity is expressed in *functional* immaturity—which may be evidenced in underdeveloped moral reasoning, faulty weighing of risks and benefits, and judgment impulsivity in offense conduct<sup>4</sup>.
- 15. Initial judicial adoption of neurodevelopmental research focused on the limitations of youth who were younger than 18. This may have prompted a misunderstanding that late teens and early 20s possess fully mature capabilities. However, there is no bright line separating offenders younger than 18 from those that are in the "late adolescent" category. There is diverse evidence for this neurodevelopmental continuum. Four lines of research demonstrate that brain development and its functional expressions continue up to age 25: psychosocial-behavioral assessments, morbidity and mortality data, functional neuroimaging during task performance, and neuroimaging.<sup>5</sup>
  - a. <u>Psycho-social-behavioral assessment:</u>

Important pro-social psychological capabilities develop from the teens to the mid-20s. Psycho-social-behavioral assessment during the late teens and early 20s demonstrates continued progression in a number of executive functions, as reflected in the model below:<sup>6</sup>



# Executive human brain functions

As the brain matures from the late teens to the mid-20s, psycho-social capabilities develop for complex thinking, greater appreciation for diverse views, improved

<sup>&</sup>lt;sup>4</sup> Cunningham M. D. (2022). *Miller* evaluations. In R. Roesch (Ed.), *Routledge encyclopedia of psychology in the real world, psychology and law.* New York: Routledge, Taylor & Francis Group.

<sup>&</sup>lt;sup>5</sup> Cunningham, M. D. (2022). *Miller* evaluations. In R. Roesch (Ed.), *Routledge encyclopedia of psychology in the real world, psychology and law.* New York: Routledge, Taylor & Francis Group.

<sup>&</sup>lt;sup>6</sup> Arain, M., Haque, M., Johal, L., Mathur, P., Nel, W., Rais, A., Sandhu, R., & Sharma, S. (2013) Maturation of the adolescent brain. *Neuropsychiatric Disease and Treatment*, *13*(9), 449-461.

understanding of mutuality in relationships, increased emotional regulation, and greater ability to weigh risks and benefits.<sup>7</sup>

With progressive emotional, social, and intellectual maturity, better control over behavior develops. Steinberg, Cauffman, and Monahan<sup>8</sup> described three aspects of such psychosocial maturity essential to desistance from crime:

- *Temperance:* The ability to control impulses, including aggressive impulses.
- *Perspective*: The ability to consider other points of view, including those that take into account longer-term consequences or that take the vantage point of others.
- *Responsibility*: The ability to take personal responsibility for one's behavior and resist the coercive influences of others.

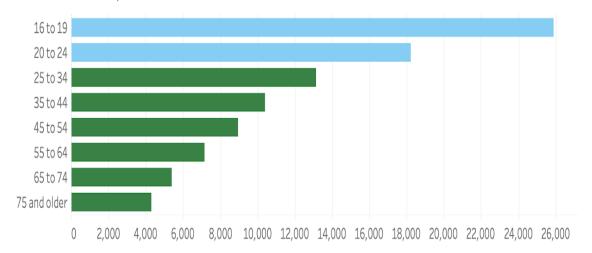
# b. Morbidity and mortality data:

Various sources of morbidity and mortality data demonstrate the behavioral implications of brain immaturity and associated decision-making, as well as the steadily accruing benefits of psychosocial maturity with age in the late teens and early 20s. Studies of data from car crashes prove instructive in highlighting the consequences of this neurodevelopment. To illustrate, the graph below from the National Safety Council (2021) reflects driver crash rates per 100,000 licensed drivers by age group. Note that crashes in the 16 to 19-year-old age group and 20 to 24 age group are significantly higher than that of older cohorts.

<sup>&</sup>lt;sup>7</sup> Simpson, R. (2008). Young Adult Development Project. MIT

<sup>&</sup>lt;sup>8</sup> Steinberg, L., Cauffman, E., & Monahan, K. (2015). Psychosocial maturity and desistance from crime in a sample of serious juvenile offenders. Juvenile Justice Bulletin, Office of Justice Programs, Office of Juvenile Justice and Delinquency Prevention.

Drivers in crashes per 100,000 licensed drivers



Recognition of the actuarial and statistical implications of a driver being less than 25 years old is demonstrated by the policies of car rental companies toward drivers younger than 25 (e.g., declining to rent to these drivers, applying significant surcharges, and restricting these drivers to specific vehicles.) The data supporting these restrictions are sufficiently broad that there is no attempt to make a case-by-case determination based on driving history or other individualized metrics.

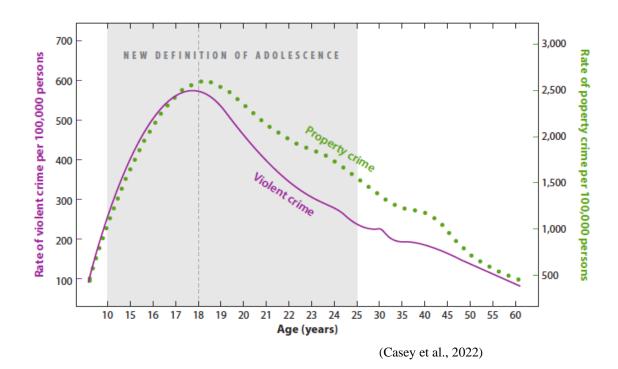
Harvard's White Paper on the Science of Late Adolescence: A *Guide for Judges*, *Attorneys, and Policy Makers* (2022) similarly notes adolescents' elevated risk-taking decisions and behaviors in multiple behavioral domains:

Compared to adults, middle and late adolescents are more likely to engage in behaviors that risk their lives and well-being. Many health risk behaviors peak in late adolescence and young adulthood. This includes risk-taking behaviors and risk-related outcomes such as reckless driving, unprotected sex, and unintentional injuries—further, overdose deaths and substance misuse peak in late adolescence and early adulthood.<sup>9</sup>

Age-crime data similarly demonstrate the behavioral implications of brain immaturity through age 25 as reflected in offending patterns mapped over the lifespan. Violent crime and property crime markedly decrease after age 25 compared to age 17-19, as reflected in the figure below:<sup>10</sup>

<sup>&</sup>lt;sup>9</sup> White Paper on the Science of Late Adolescence: A Guide for Judges, Attorneys, and Policy Makers (2022). Center for Law, Brain, and Behavior.

<sup>&</sup>lt;sup>10</sup> Casey, B. J., Simmons, C., Somerville, L. H., & Baskin-Sommers, A. (2022). Making the sentencing case: Psychological and neuroscientific evidence for expanding the age of youthful offenders. *Annual Review in Criminology*, *5*, 1-23.



The age-crime curve demonstrates the decreased level of offending subsequent to brain development and increased psychosocial capacities.

#### c. *Functional neuroimaging during task performance*

The chronology of brain development can be followed using neuroimaging measurements, in particular functional MRI (fMRI). Neuroimaging through fMRI can evaluate the brain and its various circuits and connectivities in action. In fMRI studies analyzing large-scale brain activity over several years, there is a noticeable lag in the development of the prefrontal cortex and the associated frontoparietal network (as compared to other regions of the brain), These later-developing regions are responsible for evaluative decision-making, impulse control, and emotional regulation, and account for diminished behavioral control in adolescents.

#### d. Neuro-imaging (MRI/CT)

Brain maturation does not reflect a singular developmental track. Instead, it is a multilayered and parallel process. There is an early priority in the development of subcortical limbic circuits - the reward circuits involved in immediate need attainment (such as desire, fear, and rage) - over the prefrontal cortex, which is involved in executive functions of impulse control, planning, and predicting outcomes such as negative consequences. In emotionally charged situations, the limbic circuits are prioritized, as they are better developed than executive systems of the prefrontal cortex. The latter reaches full capability in the mid 20s.

- 16. The neurodevelopmental immaturity demonstrated by all adolescents can be exacerbated or augmented by developmental adversity. Such adversity may include neurodevelopmental and psychological disorders, trauma and deprivations in the family system, and corruptive and violent communities. As these accrue, *particular* functional immaturity may be observed.
- 17. In spite of the robustness and broad applicability of the above scientific findings, a variety of faulty metrics have been asserted in individual cases in denying the role of brain immaturity in adolescent offending. Among the more routinely encountered examples are the following:
  - a. *Planning vs. impulsivity:* There may be an assertion that an offense does not reflect the impetuosity of youth because planning was involved, and therefore, the actions do not appear impulsive. This reflects a misunderstanding of impulsivity. To explain, "spontaneous" and "impulsive" overlap but are not synonymous terms/concepts.

There are two types of impulsivity. The first type is *reactive impulsivity*. Reactive impulsivity involves an immediate reaction without pause or reflection: e.g., you are shoved, and you shove the other person back. It is spontaneous in its immediacy. Reactive impulsivity is most often observed in pre-school-age children, persons who are intoxicated, persons in a crisis or emergency situation, and persons with dementia.

The second type of impulsivity is *judgment impulsivity*. Judgment impulsivity is characterized by the press of internal forces, with inadequate consideration for consequences or alternative options. For example, you meet someone today and spend the next two days planning your wedding and life together. On the third day, you marry. This represents a profoundly impulsive action, even though two days were spent in planning. Judgment impulsivity is particularly characteristic of adolescents<sup>11</sup>.

Further, planning is *not* inconsistent with immaturity. The capability to plan is a feature of human cognition that arises during the preschool years with progressive development in the complexity of plans that may be supported. Planning is a continuous and not dichotomous variable. For that reason, the presence of a plan does not contraindicate youthful vulnerabilities.

b. *Features of the offense:* An assertion may be made that if features of the offense behavior are similar to behaviors enacted by adults, then the vulnerabilities of youth are not applicable, e.g., motive of pecuniary gain, efforts to avoid detection, etc. However, the role of youthfulness is not demonstrated in the offense being completely distinct from that carried out by an adult. Certainly there are features that are more commonly observed among youthful offenders. There are no

<sup>&</sup>lt;sup>11</sup> Cunningham, M. D. (2022). *Miller* evaluations. In R. Roesch (Ed.), *Routledge encyclopedia of psychology in the real world, psychology and law.* New York: Routledge, Taylor & Francis Group.

features of adolescent offending, though, that are completely distinctive to that group alone.

To illustrate, car accidents occur with both adult and in adolescent drivers. These accidents may emanate from the similar behavioral features, including excessive speed, inattention, and stimulation. However, teens exhibit these risky behaviors more frequently than adults. One can't differentiate the role of youthful immaturity by inspecting the accident itself. Rather, the role of immaturity is demonstrated by marked reduction in such crash-risk behaviors among drivers older than 25.

- c. *Wrongful awareness:* It is sometimes asserted that if a youth "knew" an act was wrong, then youthfulness immaturity is not implicated. However, moral awareness and reasoning are more complex than a recognition that behavior is "wrong." To illustrate, a typically situated 5-year-old knows that it is wrong to kill another person. However, that recognition is socially regarded as so primitive and superficial that a 5-year-old would never be held to the level of criminal responsibility or moral culpability applied to a 25-year-old for the same homicidal conduct. From psychological research, it is understood that moral reasoning is not an all-or-nothing phenomenon. Rather, it accretes to age 25, encompassing such varied constituents as a moral code, increased empathy, and sensitivity to the impacts of actions.
- d. *No "homunculus":* It may be asserted that though a youthful defendant was immature in some respects, his offense behavior did not reflect such immaturity, thus rendering his age irrelevant as a sentencing consideration. This postulates a homunculus, i.e., miniature "person" of maturity, intact discernment, and moral clarity who somehow magically sits outside of youthful limitations and impairments, formulating offense conduct as if an adult. This homunculus is a fiction. The immature brain and associated limitations in decisional capabilities and moral reasoning are the only resources a youthful defendant possesses for understanding and acting on the world at the time of offense conduct.
- 18. The faculties of moral discernment and reasoning, facets of decisional and judgment capability, are products of increased brain development. Accordingly, the qualitative development of these capabilities is progressive through childhood and into the mid-20s and significantly accounts for the greater capacity of adults to desist from criminal conduct. Desistance from crime is also demonstrated by recidivism data, including the low recidivism rates in *Miller*<sup>12</sup> releases<sup>13</sup>.

<sup>&</sup>lt;sup>12</sup> Miller v. Alabama, 567 U.S. 460 (2012).

<sup>&</sup>lt;sup>13</sup> Beckett and Goldbert. (January 12, 2024). *Sentencing reform in Washington State: Progress and Pitfalls*; Daftary-Kapur, T., & Zottoli, T. (2020) Resentencing of juvenile lifers: The Philadelphia experience. *Department of Justice Studies Faculty Scholarship and Creative Works*, 84. Department of Justice Studies, Monclair State University; Samples, S. (August 2021) Crime by "juvenile lifers" after prison "very rare," State says. *Target 8 News*. Grand Rapid, Michigan.

- 19. Courts have already incorporated these findings in their sentencing decisions. For example, Washington State's *O'Dell* case applied this developmental science in sentencing considerations, stating, "The science proves that youth reduces culpability and is therefore relevant to the sentence imposed upon an individual defendant." The Washington courts have further adopted and relied on this science, with the *Monschke* court noting, "no clear line exists between childhood and adulthood" and "individual youthful characteristics may mitigate the sentences of these two young petitioners."
- 20. Taken as a whole, the body of neuroscientific evidence regarding adolescent brains is clear. By biological fact, adolescents wield a brain that, in its circuitry and anatomy, is tilted towards emotion, intensity, impulsivity, and poor self-regulation. However, these decisional and behavioral vulnerabilities recede with progressive brain development to age 25. Increased age and desistance from crime is a well-known phenomenon that squares well with our neurodevelopmental evidence that executive function, emotional regulation, and increased quality of moral reasoning progressively establish themselves as the brain matures. Courts would be remiss to ignore this body of evidence in their sentencing procedures—to ignore the impact of brain development until the mid-20s, and to make negative predictions about future behavior in the face of overwhelming evidence in favor of desistance.

Respectfully submitted,

Christen A. Carson, PhD, ABPP

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# CURRICULUM VITAE

#### BOARD CERTIFICATIONS

Forensic Psychology, American Board of Professional Psychology (2022) Couple and Family Psychology, American Board of Professional Psychology (2014)

## BOARD AND FACULTY POSITIONS

Past President, Washington State Psychological Association Faculty, American Board of Forensic Psychology President Elect, American Board of Couple & Family Psychology Past President, American Academy of Couple & Family Psychology Past Treasurer, American Academy of Couple & Family Psychology Editorial Board, Journal of Family Trauma, Child Custody & Child Development (2015 – 2022)

#### LICENSURE

Licensed Psychologist, 1/24/2003, #PY00002700, Washington Licensed Psychologist 2/1/2019, #PY10389, Florida Previous: Licensed Mental Health Counselor, Washington 7/2001-9/2003

#### **EDUCATION**

Ph.D. Clinical Psychology, 2001, Pacifica Graduate Institute, Santa Barbara, CA
M.A. Clinical Psychology, 1995, Duquesne University, Pittsburgh, PA
B.A. Psychology, 1993, Stetson University, Deland, FL
B.A. Spanish, 1993, Stetson University, Deland, Florida and Universidad
Complutense, Madrid, Spain

#### MEMBERSHIP

American Psychological Association APA Division 41, American Psychology-Law Society APA Division 43, The Society for Couple and Family Psychology Member APA Division 31, State, Provincial, and Territorial Psychological Association Affairs Washington State Psychological Association

### PROFESSIONAL PRACTICE

## 03/2000 - Current: Clinical and Forensic Psychologist, Seattle WA *Forensic Practice:* Criminal: Evaluations including Sentence Mitigation Evaluations, *Miller* Evaluations, Competency Evaluations, Self-Defense Evaluations. Specialization in adolescent brain development, trauma. Previously contracted psychological examiner for King County Superior Court, Juvenile Division. Family: Litigation Support in dissolution matters; Civil: Personal Injury Evaluations.

*Clinical Practice phased out in 2022:* Previously conducted individual, couple, child, adolescent, and family psychotherapy; Mental Health psycho-diagnostic evaluations with treatment recommendations; Cognitive evaluations of adults, adolescents, children, including learning disabilities, ADHD, and giftedness; Clinical supervision and consultation with doctoral students, post-doctoral students, and psychologists. Clinical Specializations: Broad range of psychiatric mental health conditions, Psycho-diagnostic assessment and differential diagnosis, relationship issues, attachment and loss, life transitions, behavior problems, mood disorders, developmental issues, chemical dependency and dual diagnosis, parenting, domestic violence, sexual abuse, LGBTQ issues.

1998-6/2001: Licensed Mental Health Counselor, Sound Mental Health, Seattle, WA Therapist working with multi-problem families with chemical dependency, domestic violence, physical abuse, sexual abuse, and out of home placement; Specialized work in the areas of psychological trauma, crisis intervention and emergency response, and integration of clinical work in primary care settings; Supervision of interns, Provided trainings to staff and students.

04/1997-09/1998: Predoctoral Psychology Intern/Therapist/Case Manager, Westside Outpatient Mental Health and Crisis Clinic, San Francisco, CA

Psychology Intern providing diagnostic assessments, treatment planning, and psychological mental health services to individuals, couples, and families, supervision of staff, and program development. Specializing in acute mental health and chemical dependency issues.

01/1996-03/1997: Social Work Specialist/Bilingual (Non-Native) Instructor and Case Manager, Curtis and Associates, Santa Barbara, CA

Taught skill-building curriculum, including social skills and psychoeducational information. Specific focus on minority non-English and Spanish speaking participants. Curtis & Associates Inc., contracted by the Santa Barbara Department of Social and Health Services, offered selfsufficiency skills and job training to individuals and welfare-to-work programs.

08/1994-08/1995: Graduate Student Counselor and Assessor, Duquesne University, Pittsburgh, PA Provided cognitive and psychological assessments, outpatient therapy.

01/1993-03/1994: Neuroscience Laboratory Technician and Research Assistant, Florida State University, Tallahassee, FL. Conducted research culminating in poster presentation and publication: Contreras, R. J., Carson, C. A., & Pierce, C. E. (1995). A novel psychophysical procedure for bitter taste assessment in rats. *Chemical senses*, *20*(3), 305–312. https://doi.org/10.1093/chemse/20.3.305

## PRESENTATIONS

(upcoming) *Current adolescent and late adolescent brain science and recidivism data,* with cospeaker Dr. Daftary-Kapur, Nebraskans for Prison Reform, Lincoln, NE, October 21, 2024

Evaluating Family and Community Factors in Adolescent and Late Adolescent Forensic Criminal Psychological Evaluations, American Psychological Association, Seattle WA. August 10, 2024

*Science Informed Decision-Making (in sentencing),* Federal Judicial Center and Center for Law, Brain and Behavior, Clinical consultant and panelist, Harvard Law School, Cambridge, MA. June 11-13, 2024

An Evidence-Informed Family Systems Decision Tree for Intervening in Parent-Child Contact Problems with Leslie M. Drozd, PhD, and Michael A. Saini, PhD, Association of Family and Conciliation Courts, Chicago, IL, May 12, 2022

*Post-Divorce Issues and Parenting Plans that Stimulate Growth*, American Academy of Forensic Psychology, Portland, OR,November 16, 2018, *Guest speaker* with Robin Deutsch, Ph.D., ABPP and Marsha Kline Pruett, Ph.D., MSL, ABPP

Considerations in Developing Parenting Plans for Special Needs Children: Focus on Autism Spectrum and ADHD, Association of Family and Conciliation Courts, Seattle, WA, September 22, 2018

*Child Custody Research & Issues with IPV & Child Abuse,* 22nd International Summit on Violence, Abuse & Trauma, Speaker Plenary Panel, San Diego, CA September 26, 2017

Comprehensive Parenting Evaluations: Steps with Emphasis on Abuse & Trauma Assessment, San Diego, CA, IVAT September 27, 2017

Assessing Trauma, Alienation, and Abuse in Parenting Evaluations, International Hawai'i Summit on Preventing, Assessing & Treating Trauma Across the Lifespan. Invited speaker March 29, 2017

# PUBLICATIONS

Sample affidavit: *Adolescent and late adolescent brain development and functional maturity relevant to sentencing considerations*. (June 2024). Neurolaw online library, Center for Law, Brain & Behavior (CLBB) based at Harvard Law School, Massachusetts General Hospital, and Harvard Medical School.

# **RELEVANT CONTINUING EDUCATION ATTENDED (last 5 years)**

December 8, 2023, 4 hours Atkins Evaluations: Procedures, Psychometrics, and Recommendations Concept - Mark D. Cunningham, PhD, ABPP

September 22, 2023, 3 hours Forensic Evaluation of Juveniles: Competency to Stand Trial and Risk Assessment in Juvenile Court American Academy of Forensic Psychology - Carol Holden, PhD, ABPP

April 4, 2023, 1 hour When the Science Says Children but the Law Says Adults: Trying and Sentencing Youth as Adults Petrie-Flom Center Harvard Law School: BJ Casey PhD, Marsha Levick JD, Stephanie Tabashneck, PsyD, JD

February 28, 2023, 1 hour Criminal Responsibility, Addiction & Neuroscience United Nations Institute for Training and Research/Center for Law, Brain & Behavior [Harvard], and Maastricht University

November 2, 2022 3 hours Differentiating Delusional Disorder from Extreme Political Beliefs American Academy of Forensic Psychology- Mark Cunningham, PhD, ABPP

November 2, 2022 3 hours Moving Beyond a Color-blind Approach to Forensic Assessment American Academy of Couple and Family Psychology - Michelle Guyton, PhD, ABPP & Antoinette Kavanaugh, PhD, ABPP

October 27, 2022, 1 hour Life Sentences for Children: The Neuroscientific Basis for Limitations on Harsh Sentencing. Center for Law, Brain, and Behavior Massachusetts General Hospital and Petrie-Flom Center at Harvard Law School. Carmel Schacher, Leah Somerville, Stephanie Tabashneck PsyD, JD.

July 27, 2022, 3 hours That Which We Do Not Know, Autism and Threat Concept Continuing and Professional Studies- Stephanie Leite, PhD

April 26, 2021 1.5 hours The Enduring Relationship of Early Life Poverty and the Development of Brain Structure and Function National Academy of Neuropsychology- Deanna M. Barch, PhD

September 20, 2021, 4 hours AAFP: Ethics in Forensic Practice Concept/Palo Alto University - Michelle R. Guyton, PhD, ABPP September 9, 10, 16, 17, 2021, 16 hours Assessment of Malingering Concept/Palo Alto University- Barry Rosenfeld, PhD, ABPP

June 15, 2021, 1 hour Cause & Effect: Establishing Causation in Personal Injury Cases University of New Mexico, Dept. of Psychiatry & Behavioral Sciences Ryan C. Wagoner, MD, University of South Florida

March 30, 2021, 1 hour Forensic Evaluations via Videoconferencing: Best Practices University of New Mexico, Dept. of Psychiatry & Behavioral Sciences David D. Luxton, PhD, MS, University of Washington/WA DOC

February 25, 2021, 4 hours Malingering in Forensic Evaluations American Academy of Forensic Psychology- Michael Vitacco, PhD, ABPP

October 20, 2020, 1 hour A Matter of Life and Death – Evaluations for Capital Sentencing Lecture series UNM School of Medicine Mark Cunningham, Ph.D., ABPP

September 26, 2020, 4 hours Evaluating Youth Facing Long Term Sentences in Adult Court American Board of Forensic Psychology- Antoinette E. Kavanaugh, Ph.D., ABPP

August 29, 2020, 7 hours Evaluation of Juveniles Competence to Stand Trial Concept CEU -text by Ivan Kruh, Ph.D., ABPP & Thomas Grisso, Ph.D., ABPP

August 29, 2020, 6 hours Evaluating Capacity to Waive Miranda Rights Concept CEU- text by Alan Goldstein Ph.D., ABPP & Naomi Sevin, Ph.D., ABPP

August 19, 2020, 20 hours Evaluation of Criminal Responsibility/Insanity Concept Professional Training Ira Packer, Ph.D., ABPP

May 10, 2020, 4 hours Critical Thinking in Forensic Psychological Evaluation American Academy of Forensic Psychology- Terry Kukor, Ph.D., ABPP

May 9, 2020, 7 hours Evidence-Based Evaluations of Criminal Responsibility American Academy of Forensic Psychology- Terry Kukor, Ph.D., ABPP May 6, 2020, 7 hours Assessing Allegations of Trauma in Forensic Contexts American Academy of Forensic Psychology (ABFP) Christina Pietz, Ph.D., ABPP

August 10, 2019, 1 hour Treating the Difficult Divorce American Psychological Association Conference -Jay Lebow, Ph.D., ABPP

July 15, 2019, 6 hours Assessing Allegations of Trauma in Forensic Contexts Concept Professional Training Christina Pietz, Ph.D., ABPP

April 1, 2019, 7 hours Specialized Training Services- WA State Criminal Justice Training Commission Threat Assessment and Management with Adolescents and Young Adults-Laura S. Guy, Ph.D., ABPP