



STATE BOARD OF OPTOMETRY
2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834
P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course Approval Checklist

Title:

Provider Name:

- Completed Application
 - Open to all Optometrists? Yes No
 - Maintain Record Agreement? Yes No
- Correct Application Fee
- Detailed Course Summary
- Detailed Course Outline
- PowerPoint and/or other Presentation Materials
- Advertising (optional)
- CV for EACH Course Instructor
- License Verification for Each Course Instructor
 - Disciplinary History? Yes No



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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory Fee

Filing and Board Use Only			
Receipt #	Payor ID	Beneficiary ID	Amount
1-3323	4395914	4395914	50

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule, a detailed course outline and presentation materials (e.g., PowerPoint presentation). Applications must be submitted 45 days prior to the course presentation date.

Please type or print clearly.

Course Title Neuro-Optometry	Course Presentation Date 07/21/2017
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Course Provider Contact Information

Provider Name Joseph Pruitt Allan (First) (Last) (Middle)		
Provider Mailing Address Street 11980 Mt Vernon Ave. City Grand Terrace State CA Zip 92313		
Provider Email Address pruitt.joseph@gmail.com		
Will the proposed course be open to all California licensed optometrists?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Course Instructor Information

Please provide the information below and attach the curriculum vitae for each instructor or lecturer involved in the course. If there are more instructors in the course, please provide the requested information on a separate sheet of paper.

Instructor Name Joseph Pruitt Allan (First) (Last) (Middle)	
License Number 13429	License Type TLG
Phone Number (909) 721-7751	Email Address pruitt.joseph@gmail.com

I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.

[Signature]
Signature of Course Provider

3/13/2017
Date

- 1 **NEURO-OPTOMETRY**
Joseph A. Pruitt, O.D., M.B.A., FAAO
Riverside-San Bernardino County Indian Health, INC
- 2 **Anatomical Review**
- 3 **Embryological Review**
- 4 **Functions of the Cerebellum**
 - Primary Function:
 - participates in "programming" of repeated, learned movements
 -
 - Therefore a cerebellar lesion could result in ipsilateral:
 - Loss of balance
 - Lack of coordination
 - Reduced muscle tone
 - Intention tremor (tremor in executing voluntary movements)
- 5 **Functions of the Brainstem**
 - Medulla
 -
 - Contains cranial nerve nuclei IX-XII
 - Contains continuation of spinal tracts
 - Pyramids of medulla carry descending cortical information (continuation of cerebral peduncles of pons)
- 6 **Functions of Brainstem**
 - Pons
 - Contains cranial nerve nuclei IV-VII
 - Contains medial longitudinal fasciculus which connects CN VI nucleus with contralateral CN III nucleus for conjugate gaze
 - Middle cerebellar peduncle (tract) conveys information from cerebrum to cerebellum
- 7 **Functions of the Brainstem**
 - Midbrain
 - Superior and inferior colliculi on posterior surface; function of superior colliculus is known to be involved in visual reflexes, but precise role is uncertain
 - Cerebral Peduncles (tracts) on anterior surface carry information from cerebral cortex to brainstem and spinal cord
 - Contains cranial nerve III nuclei
- 8 **Functions of the Brainstem**
 - Lesions in the brainstem usually produces serious neurological deficits
 -
 - Because of the proximity of small structures, multiple deficits often occur
- 9 **Cranial Nerve Review**
 - CN I
 - Name:
 - Olfactory
 - Type (Sensory, Motor or Both):
 - Sensory
 - Function:
 - Transmits the sense of smell from the nasal cavity
- 10 **Cranial Nerve Review**


- ▣ CN II

- Name:
 - Optic
- Type (Sensory, Motor or Both):
 - Sensory
- Function:
 - Transmit visual signals from the retina of the eye to the brain

11  **Cranial Nerve Review**


- ▣ CN III

- Name:
 - Oculomotor
- Type (Sensory, Motor or Both):
 - Motor
- Function:
 - Innervates the levator palpebrae superioris, superior rectus, medial rectus, inferior rectus, and inferior oblique, which collectively perform most eye movement. Also innervates the sphincter pupillae and the muscles of the ciliary body.

12  **Cranial Nerve Review**

- ▣ CN IV

- Name:
 - Trochlear
- Type (Sensory, Motor or Both):
 - Motor
- Function:
 - Innervates the superior oblique muscle, which depresses, rotates laterally and intorts the eye

13  **Cranial Nerve Review**


- ▣ CN V

- Name:
 - Trigeminal
- Type (Sensory, Motor or Both):
 - Both
- Function:
 - Receives sensation from the face and innervates the muscles of mastication
 - - Bonus: Can you name the 3 branches?
 - Ophthalmic
 - Maxillary
 - Mandibular

14  **Cranial Nerve Review**

- ▣ CN VI

- Name:
 - Abducens
- Types (Sensory, Motor or Both):
 - Motor
- Function:
 - Innervates lateral rectus

15  **Cranial Nerve Review**

- ▣ CN VII
 - Name:
 - Facial
 - Types (Sensory, Motor or Both)
 - Both
 - Function:
 - Provides motor innervation to the muscles of facial expression, posterior belly of the digastric muscle, and stapedius muscle. Also receives the special sense of taste from the anterior 2/3 of the tongue and provides secretomotor innervation to the salivary glands (not including the parotid) and the lacrimal gland.

16 **Cranial Nerve Review**

- ▣ CN VIII
 - Name:
 - Auditory, Acoustic or Vestibulocochlear
 - Type (Sensory, Motor or Both):
 - Sensory
 - Function:
 - Senses sound, rotation, and gravity (essential for balance and movement). More specifically, the vestibular branch carries impulses for equilibrium and the cochlear branch carries impulses for hearing.

17 **Cranial Nerve Review**

- ▣ CN IX
 - Name:
 - Glossopharyngeal
 - Type (Sensory, Motor or Both)
 - Both
 - Function:
 - Receives taste from the posterior 1/3 of the tongue, provides secretomotor innervation to the parotid gland, and provides motor innervation to the stylopharyngeus. Some sensation is also relayed to the brain from the palatine tonsils.

18 **Cranial Nerve Review**

- ▣ CN X
 - Name:
 - Vagus
 - Type (Sensory, Motor or Both)
 - Both
 - Function:
 - Major Function: controls muscles for voice and resonance and the soft palate
 - Supplies branchiomotor innervation to most laryngeal and pharyngeal muscles (not including stylopharyngeus.) Also provides parasympathetic fibers to nearly all thoracic and abdominal viscera down to the splenic flexure. Receives the special sense of taste from the epiglottis.

19 **Cranial Nerve Review**

- ▣ CN XI
 - Name:
 - Spinal Accessory
 - Type (Sensory, Motor or Both)
 - Motor

- Function:
 - Controls the sternocleidomastoid and trapezius muscles, and overlaps with functions of the vagus nerve (CN X).

20 **Cranial Nerve Review**

▫ CN XII

- Name:
 - Hypoglossal
- Type (Sensory, Motor or Both)
 - Motor
- Function:
 - Provides motor innervation to the muscles of the tongue (not including the palatoglossus) and other glossal muscles.

21 **Cranial Nerve Review**

22 **Functions of the Diencephalon**

▫ Thalamus: a "relay" station

- Almost all sensory information (except olfactory information) is processed in thalamus before being sent on to the cerebral cortex
 - This includes LGN for the visual pathway

- Motor information that requires coordination between cerebral cortex and cerebellum is processed and relayed by the thalamus

23 **Functions of the Diencephalon**

▫ Hypothalamus

- Autonomic system master control
 - This includes sympathetic input to the pupil, eyelids (Mueller's muscles)
 - The true "master gland" because it directs the anterior lobe of the pituitary gland

24 **Functions of the Diencephalon**

▫ Pituitary

- Hormones secreted by the anterior pituitary
 - Thyroid-stimulating hormone (TSH, thyrotropin)
 - Adrenocorticotrophic hormone (ACTH)
 - Luteinizing hormone (LH)
 - Follicle-stimulating hormone (FSH)
 - Prolactin
 - Growth hormone (GH)
- Hormones secreted by the posterior pituitary
 - Vasopressin
 - Oxytocin

25 **Functions of the Telencephalon**

▫ Frontal Lobe

- Functions of the Frontal Lobe:
 - Highest level of cognitive function-most sophisticated activity

▫ Temporal Lobe

- Functions of the Temporal Lobe:
 - Primary auditory cortex
 - Responsible for hearing and integration of auditory information

26 **Functions of the Telencephalon**

- ▣ Temporal Lobe (continued)

- Functions of the Temporal Lobe:

- ▣ Speech
 - Dominant side of the brain (usually left side) contains Wernicke's area in the posterior superior temporal gyrus
 - Wernicke's area is responsible for the capacity to formulate and articulate thoughts (along with small part of the parietal lobe)
 - ▣ The posterior aspect of the underside of the temporal lobe, near the occipital lobe, is involved in facial recognition
 - ▣ The uncus and hippocampal gyrus together with the adjacent amygdala in the limbic system serve gustatory and olfactory processes, learning and memory function, and behavioral regulation

27 **▣ Functions of the Telencephalon**

- ▣ Temporal Lobe (continued)

- Visual pathway and Meyer's loop
 - ▣ Meyer's loop is comprised of inferior fibers of the visual pathway corresponding to contralateral superior visual field

28 **▣ Functions of the Telencephalon**

- ▣ Temporal Lobe (continued)

- Lesions of Temporal Lobe are usually neoplastic (rather than vascular)
 - ▣ Mesial temporal lobe epilepsy
 - ▣ Partial Seizures
 - Both simple and complex
 - ▣ Visual Field Defects
 - Range from small superior scotoma to complete homonymous hemianopsia with macula splitting
 - ▣ Partial Bilateral Deafness
 - ▣ Aphasia (Wernicke's aphasia)
 - ▣ Agnosia
 - ▣ Memory Loss
 - ▣ Olfactory Hallucinations

29 **▣ Functions of the Telencephalon**

- ▣ Parietal Lobe

- ▣

- Functions of the Parietal Lobe
 - ▣ Spatial Relations
 - ▣ Speech (dominant hemisphere)
 - ▣ Visual Pathway

30 **▣ Functions of Telencephalon**

- ▣ Parietal Lobe

- Lesions can be both neoplastic or vascular resulting in:
 - ▣ Various apraxias
 - ▣ Aphasia
 - ▣ Agnosia
 - ▣ Acalculia
 - ▣ Motor Impersistence

- Hemi-neglect
 - Contra-lateral side

31 **Functions of the Telencephalon**

- Occipital Lobe
 - Functions of the Occipital Lobe
 - Vision/Visual Functions
 - Primary visual cortex: lights, colors, movements, outlines
 - Secondary visual cortex: integrative, associative functions, pursuits and vergences
 - Occipito-temporal cortex: Recognition of familiar faces and objects
 - Lesions more commonly vascular rather than neoplastic

32 **Functions of the Telencephalon**

- Occipital Lobe
 - Lesions may result with:
 - Highly congruous homonymous field defect
 - with macular sparing
 - Bilateral occipital lobe blindness with denial
 - Anton's Syndrome
 - Occipito-temporal lesions usually have to be bilateral in order to produce prosopagnosia or object agnosia

33 **Functions of Telencephalon**

- Basal Ganglia
 - Typically Includes:
 - Caudate
 - Putamen
 - Globus Pallidus
 - Potentially Includes:
 - Substantia Nigra
 - Red Nucleus
 - Subthalamic Nucleus
 - Pontine Reticular Formation

34 **Functions of Telencephalon**

- Basal Ganglia
 - Functions of Basal Ganglia
 - Primary: smooth involuntary movement
 - Lesions may result in:
 - Tremor (most classically Parkinsonism)
 - Rigidity
 - Bradykinesia
 - Hypokinesia
 - Chorea (most classically Huntington's Chorea)
 - Athetosis

35 **Neurological Disorders Affecting the Visual System**

- - Multiple Sclerosis/demyelinating disease
 - Medial Longitudinal Fasciculus (MLF)

- The MLF connects the CN VI nucleus on one side with the contralateral CN III nucleus for conjugate gaze
- A MS plaque in MLF can result in internuclear ophthalmoplegia (INO)
- Optic Neuritis
- Potential CN III, IV, VI involvement

36 **Neurological Disorders Affecting the Visual System**

-
- Phakomatoses
 - Neurofibromatosis Type I (Von Reckinghausen's disease)
 - Café au lait spots
 - Hamartomas of iris (Lisch nodules)
 - Peripheral nerve tumors (neurofibromas)

37 **Neurological Disorders Affecting the Visual System**

-
- Phakomatoses (continued)
 - Encephalotrigeminal Angiomatosis (Sturge-Weber Syndrome)
 - Port-wine stains
 - Glaucoma
 - Mental Retardation

38 **Neurological Disorders Affecting the Visual System**

-
- Phakomatoses (continued)
 - Tuberos Sclerosis (Bourneville's disease)
 - Facial angiofibroma (Adenoma sebaceum)
 - Achromatic nevi
 - Astrocytoma in the retina

39 **Neurological Disorders Affecting the Visual System**

-
- Phakomatoses (continued)
 - Retinal-Neuro-Cutaneous Cavernous Hemangioma Syndrome (Weskamp-Cotlier Syndrome)
 - Classic cavernous hemangiomas (Typically unilateral)
 - Small telangiectatic vascular lesions of the skin

40 **Neurological Disorders Affecting the Visual System**

-
- Phakomatoses (continued)
 - Angiomatosis Retinae (Von Hippel-Lindau disease)
 - Retinal, cerebellar, and spinal hemangioblastomas
 - Pheochromocytoma, renal cysts, renal cell carcinoma

41 **Neurological Disorders Affecting the Visual System**

-
- Phakomatoses (continued)
 - Wyburn-Mason
 - Arteriovenous malformations (AVM)

42 **Neurological Disorders Affecting the Visual System**

-
- Others

- Sarcoidosis

- Myasthenia Gravis

NEURO-OPTOMETRY

Joseph A. Pruitt, O.D., M.B.A., F.AAO
Riverside-San Bernardino County
Indian Health, INC

Anatomical Review

CEREBRUM
Frontal Lobe
Parietal Lobe
Temporal Lobe
Occipital Lobe

CEREBELLUM

BRAIN STEM

Cerebrum = Cerebral Cortex + Basal Ganglia + Limbic System
Cerebellum
Brain Stem = Midbrain + Pons + Medulla

Embryological Review

Forebrain = Cerebrum (cortical hemispheres and their internal structures)
Diencephalon: Thalamus, Hypothalamus
Midbrain = Midbrain
Hindbrain = Pons and cerebellum
Myelencephalon: Medulla

Functions of the Cerebellum

- **Primary Function**
 - Participates in "programming" of repeated, learned movements
- Therefore a cerebellar lesion could result in ipsilateral:
 - Loss of balance
 - Loss of coordination
 - Reduced muscle tone
 - Intention tremor (tremor in executing voluntary movements)

Functions of the Brainstem

- **Medulla**
 - Contains cranial nerve nuclei IX-XII
 - Contains continuation of spinal tracts
 - Pyramids of medulla carry descending cortical information (continuation of cerebral peduncles of pons)

Functions of Brainstem

- **Pons**
 - Contains cranial nerve nuclei IV-VII
 - Contains medial longitudinal fasciculus which connects CN VI nucleus with contralateral CN III nucleus for conjugate gaze
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Functions of the Brainstem

- **Midbrain**
 - Superior and inferior colliculi on posterior surface; function of superior colliculus is known to be involved in visual reflexes, but precise role is uncertain
 - Cerebral Peduncles (tracts) on anterior surface carry information from cerebral cortex to brainstem and spinal cord
 - Contains cranial nerve III nuclei

Functions of the Brainstem

- **Lesions in the brainstem usually produces serious neurological deficits**
 - Because of the proximity of small structures, multiple deficits often occur

Cranial Nerve Review

- **CN I**
 - Olfactory
 - Type (Sensory, Motor or Both): Sensory
 - Function: Transmits the sense of smell from the nasal cavity

Cranial Nerve Review

CN II

- Name: Optic
- Type (Sensory, Motor or Both): Sensory
- Function: Transmits visual signals from the retina of the eye to the brain.

Cranial Nerve Review

CN III

- Name: Oculomotor
- Type (Sensory, Motor or Both): Motor
- Function: Innervates the levator palpebrae superioris, superior rectus, medial rectus, inferior rectus, and inferior oblique, which collectively perform most eye movements. Also innervates the sphincter pupillae and the muscles of the ciliary body.

Cranial Nerve Review

CN IV

- Name: Trochlear
- Type (Sensory, Motor or Both): Motor
- Function: Innervates the superior oblique muscle, which depresses, rotates laterally and intorts the eye.

Cranial Nerve Review

CN V

- Name: Trigeminal
- Type (Sensory, Motor or Both): Both
- Function: Receives sensation from the face and innervates the muscles of mastication.
 - Motor: Can you name the 3 branches?
 - Ophthalmic
 - Maxillary
 - Mandibular

Cranial Nerve Review

CN VI

- Name: Abducens
- Type (Sensory, Motor or Both): Motor
- Function: Innervates lateral rectus

Cranial Nerve Review

CN VII

- Name: Facial
- Type (Sensory, Motor or Both): Both
- Function: Provides motor innervation to the muscles of facial expression, posterior belly of the digastric muscle, and the stylohyoid muscle. Also receives the special sense of taste from the anterior 2/3 of the tongue and provides secretomotor innervation to the salivary glands (not including the parotid) and the lacrimal gland.

Cranial Nerve Review

CN VIII

- Name: Auditory, Vestibular or Vestibulocochlear
- Type (Sensory, Motor or Both): Sensory
- Function: Senses sound, rotation, and gravity (essential for balance and movement). More specifically, the vestibular branch carries impulses for equilibrium and the cochlear branch carries impulses for hearing.

Cranial Nerve Review

CN IX

- Name: Glossopharyngeal
- Type (Sensory, Motor or Both): Both
- Function: Carries taste from the posterior 1/3 of the tongue, provides secretomotor innervation to the parotid gland, and provides motor innervation to the stylopharyngeus. Some sensation is also relayed to the brain from the palatine tonsils.

Cranial Nerve Review

CN X

- Name: Vagus
- Type (Sensory, Motor or Both): Both
- Function: Motor innervation controls muscles for voice and resonance and the soft palate. Supplies branches motor innervation to most laryngeal and pharyngeal muscles (not including stylopharyngeus). Also provides parasympathetic fibers to nearly all thoracic and abdominal viscera down to the splenic flexure. Receives the special sense of taste from the epiglottis.

Cranial Nerve Review

10. CN XI

- Name: Spinal Accessory
- Type: (Sensory, Motor, or Both) Motor
- Function: Controls the sternocleidomastoid and trapezius muscles and overlaps with functions of the vagus nerve (CN X)

Cranial Nerve Review

11. CN XII

- Name: Hypoglossal
- Type: (Sensory, Motor, or Both) Motor
- Function: Provides motor innervation to the muscles of the tongue (not including the palatoglossus) and other lingual muscles

Cranial Nerve Review

Functions of the Diencephalon

11. Thalamus

- Thalamus a "relay" station
- Almost all sensory information (except olfactory information) is processed in thalamus before being sent on to the cerebral cortex
- This includes LCN for the visual pathway
- Motor information that requires coordination between cerebral cortex and cerebellum is processed and relayed by the thalamus

Functions of the Diencephalon

12. Hypothalamus

- Autonomic system master control
- This includes sympathetic input to the pupil, eyelids (Müller's muscle)
- The true "master gland" because it directs the anterior lobe of the pituitary gland

Functions of the Diencephalon

13. Pituitary

- Hormones secreted by the anterior pituitary
 - Thyroid-stimulating hormone (TSH, thyrotropin)
 - Adrenocorticotropic hormone (ACTH)
 - Gonadotropin-releasing hormone (LH)
 - Follicle-stimulating hormone (FSH)
 - Prolactin
 - Growth hormone (GH)
- Hormones secreted by the posterior pituitary
 - Oxytocin
 - Vasopressin

Functions of the Telencephalon

14. Frontal Lobe

- Functions of the Frontal Lobe:
 - Highest level of cognitive function - most sophisticated activity
- Temporal Lobe
 - Functions of the Temporal Lobe:
 - Primary auditory cortex
 - Responsible for hearing and integration of auditory information

Functions of the Telencephalon

15. Temporal Lobe (continued)

- Function of the Temporal Lobe:
 - Dominant side of the brain (usually left side) contains Wernicke's area in the posterior superior temporal gyrus
 - Wernicke's area is responsible for the capacity to formulate and articulate thoughts (along with small part of the parietal lobe)
 - The posterior aspect of the underside of the temporal lobe, near the occipital lobe, is involved in facial recognition
 - The uncus and hippocampal gyrus together with the adjacent amygdala in the limbic system serve gustatory and olfactory processes, learning and memory function, and behavioral regulation


Functions of the Telencephalon

16. Temporal Lobe (continued)

- Visual pathway and Meyer's loop
 - Meyer's loop is comprised of inferior fibers of the visual pathway corresponding to contralateral superior visual field


Neurological Disorders Affecting the Visual System

- Phakomatoses (continued)
 - Encephalotrigeminal Angiomatosis (Sturge-Weber Syndrome)
 - Forebrain gliosis
 - Glaucoma
 - Mental Retardation




Neurological Disorders Affecting the Visual System

- Phakomatoses (continued)
 - Tuberous Sclerosis (Bourneville's disease)
 - Facial angiofibroma (Adenoma sebaceum)
 - Chromatic navi
 - Astrocystoma in the retina




Neurological Disorders Affecting the Visual System

- Phakomatoses (continued)
 - Retinal Neuro-ciliary Cavemous Hemangioma Syndrome (Weissman-Collier Syndrome)
 - Classic cavernous hemangiomas (Typically unilateral)
 - Small telangiectatic vascular lesions of the skin




Neurological Disorders Affecting the Visual System

- Phakomatoses (continued)
 - Angiomatous Retinae (Von Hippel-Lindau disease)
 - Retinal, cerebellar, and spinal hemangioblastomas
 - Rheochromocytoma, renal cysts, renal cell carcinoma



Neurological Disorders Affecting the Visual System

- Phakomatoses (continued)
 - Wyburn-Mason
 - Arteriovenous malformations (AVM)



Neurological Disorders Affecting the Visual System

- Others
 - Sarcoidosis
 - Myasthenia Gravis

Joseph A. Pruitt, O.D., M.B.A., FAAO

Objective:

Education:

Nova Southeastern University, Fort Lauderdale-Davie, Florida Master of Business Administration, 2011	2008-2011
West Los Angeles Veteran Affairs Healthcare Center, Los Angeles, California Residency Certificate, Geriatric/Primary Care, 2008	2007-2008
Illinois College of Optometry, Chicago, Illinois Doctor of Optometry, 2007	2003-2007
California State Polytechnic University, Pomona, California Bachelor of Science, Biology, 2003	2000-2003
University of Memphis, Memphis, Tennessee Major in Biology	1999-2000

Licenses:

Tennessee #2753 • Active • Injectable Certification • Therapeutic Certification	Date of Issue: July 10, 2007
California #13429T • Active • Therapeutic and Pharmaceutical Agent + Lacrimal Irrigation and Dilation + Glaucoma (TLG) Certified	Date of Issue: Sept. 28, 2007
Georgia #OPT002454 • Active • Diagnostic and Therapeutic Pharmaceutical Agent Certified	Date of Issue: June 12, 2008
Minnesota #3130 • Active • Diagnostic Pharmaceutical Agent (DPA) Certified • Therapeutic Pharmaceutical Agent (TPA) Certified	Date of Issue: June 17, 2008

Board Certification:

American Board of Certification in Medical Optometry • Board certified	Date of recertification: Feb 2018
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Certifications:

Drug Enforcement Agency (DEA) Certified	Date of Expiration: Mar 2020
Cardiopulmonary Resuscitation (CPR) & Automated External Defibrillator (AED)	Recommended Renewal: Mar 2017
Bausch & Lomb Overnight Orthokeratology • Certification Number: 20060406002	Date of Issue/Completion: April 6, 2006

Paragon Corneal Refractive Therapy (CRT)

Date of Issue/Completion: Dec. 28, 2007

- Certification Number: 161000

Advance Competence in Medical Optometry (ACMO)

Date Taken: June 13, 2008

- Administered by the National Board of Examiners in Optometry (NBE0)
- Examination only made available to candidates meeting specific clinical experience requirements/pre-requisites
- Passed examination

Employment:

Riverside San Bernardino County Indian Health, Inc (RSBCIHI)

Oct. 2014- present

- Director of Eye Care
- Staff Optometrist

Riverside San Bernardino County Indian Health, Inc (RSBCIHI)

July 2014- Oct. 2014

- Staff Optometrist

Minneapolis Veteran Affairs Health Care System

Nov 2008- June 2014

- Low Vision/Staff Optometrist
- Optometric Residency Coordinator
 - Spearheaded and implemented program
- Student Externship Coordinator
 - Spearheaded and implemented program

Wal-Mart Vision Center (Red Wing & Rochester, MN)

Jul 2008- Nov 2008

- Associate Optometrist

EyExam of California

Oct 2007- June 2008

- On-call/Fill-in Optometrist

Faculty Appointments:

Western University of Health Science / College of Optometry,
Pomona, California

Jan 2015 - present

- Clinical Assistant Professor of Optometry
- RSBCIHI Externship Site Program Director
 - As part of being RSBCIHI Eye Care Director

University of the Incarnate Word-Rosenberg School of Optometry,
San Antonio, Texas

May 2012- June 2014

- Clinical Assistant Professor
- Minneapolis VA HCS Externship Site Program Director

Midwestern University-Arizona College of Optometry, Glendale, Arizona

May 2012- June 2014

- Adjunct Clinical Assistant Professor
- Minneapolis VA HCS Externship Site Program Director

Southern College of Optometry, Memphis, Tennessee

Dec 2010- June 2014

- Adjunct Faculty
- Minneapolis VA HCS Externship Site Program Director

University of Missouri, St. Louis College of Optometry, St. Louis, Missouri

Jul 2009- June 2014

- Adjunct Assistant Professor
- Minneapolis VA HCS Externship Site Program Director

Experience:

Riverside-San Bernardino Indian Health, Inc

Oct 2014 - present

- Director of Eye Care
 - Oversee all organizational Eye Care activities

- Staff Optometrist

Riverside-San Bernardino Indian Health, Inc

Jul 2014 – Oct 2014

- Staff Optometrist

Minneapolis Veteran Affairs Medical Center

Nov 2008- June 2014

- Staff Optometrist
 - Primary Eye Care
 - Low Vision
 - Sole low vision eye care provider
 - Polytrauma/Traumatic Brain Injury (TBI) Ocular Health & Vision Assessments
- VISN 23 Low Vision Continuum of Care Conference (May 2009)
 - Faculty
 - Planning committee
- Established Associated Health Education Affiliation Agreement with University of Missouri, St. Louis College of Optometry, Ferris State University Michigan College of Optometry, & Southern College of Optometry for the optometric externship program
 - Externship program director
- Established Associated Health Education Affiliation Agreement with the Illinois College of Optometry for the optometry residency program
 - Residency in Primary Care/Brain Injury and Vision Rehabilitation
 - Residency program director
 - Designed the program's curriculum
 - Secured all necessary approvals and funding
 - After the initial site visit, program received full ACOE accreditation

Wal-Mart Vision Center (Red Wing & Rochester, MN)

Jul 2008- Nov 2008

- Associate Optometrist

Residency:

West Los Angeles Veteran Affairs Healthcare Center

Jul 2007- June 2008

- Geriatrics/Primary Care
 - Primary Care including Diabetic exams
 - Low Vision evaluations/exams
 - Nursing home/in-patient exams
 - Medically justified specialty contact lenses exams/fittings
 - Lecture Internal Medicine's and Endocrinology's Residents & Interns on Diabetic Retinopathy
 - Given during Chief Resident rotation
 - Precept Southern California College of Optometry's interns

Optometric Externships:

Atlantic Eye Institute, Jacksonville Beach, FL

Feb-May 2007

- OD/MD private practice with an emphasis on Contact Lenses and Primary Care
- Observed multiple surgical procedures:
 - Cataract Extraction
 - Blepharoplasty
 - Strabismus recession and resection

Memphis Veterans Affairs Medical Center (VAMC), Memphis, TN

Nov 2006-Feb 2007

- Emphasis on Primary Care
- Assisted in direct care in a high patient volume

- medical optometric eye clinic
- Assisted in optometric injections and fluorescence angiographies procedures

Illinois Eye Institute (IEI), Chicago, IL

Aug-Nov 2006

- Emphasis on Pediatrics/Binocular Vision, Advance Care, and Low Vision
- Performed comprehensive eye exams on pediatric patients (infants-1 yrs of age)
- Performed comprehensive eye exams on "at risk/2nd chance" children one day a week at Maryville Academy
- Constructed, tailored and performed successful binocular vision/vision therapy treatments to 4 children over a 10 week period
- Assisted in the treatment of advance glaucoma with attending University of Chicago ophthalmologist
- Performed problem specific examinations one day per week in IEI's Emergency/Urgent Care/Walk-in clinic
- Performed full Low Vision examinations including Low Vision device selection and training

Body of Christ Optometry Clinic, Tegucigalpa, Honduras

May-Aug 2006

- Emphasis on Primary and Advance Care
- Performed full-scope optometric care in a high patient volume medical clinic geared towards the underprivileged
- Also worked closely with a local ophthalmologist
 - Observed and assisted in Cataract Extraction and Incision and Curettage procedures
 - Provided pre and post-surgical care

Primary Care Clinical Education
Illinois Eye Institute, Chicago, IL

Aug 2005-May 2006

Volunteer Optometric Assistant

Body of Christ Optometry Clinic, Tegucigalpa, Honduras

Jun-Aug 2004

- Assisted staff optometrist in direct patient care in the clinic and multiple remote satellite outreach locations

**Professional
Affiliations/Memberships:**

- Accreditation Council on Optometric Education
 - Consultant, 2014-present
- American Academy of Optometry (AAO)
 - Fellow; Class of 2009
- American Optometric Association (AOA)
- Armed Forces Optometric Society (AFOS)
- European Academy of Optometry and Optics (EAOO)
 - Candidate for Fellowship
- Fellowship of Christian Optometrists (FCO)
- Minneapolis VAMC Medical Staff Association
 - Steering Committee, member 2010-2014
- National Association of Veteran Affairs Optometrists (NAVAO)
 - Newsletter Committee, member 2010-2014
- National Optometric Association (NOA)
 - Minnesota's NOA State Representative 2010-2012
 - National Optometric Student Association (NOSA)
 - NOSA National Vice-President: 2006-2007
 - NOSA-ICO President: 2005-2006
 - NOSA-ICO Vice-President: 2004-2005

- Volunteer Optometric Service to Humanity (VOSH)
- Journal of Rehabilitation Research and Development
 - Peer Reviewer, 2013-2014

Activities:

- VOSH Medical Mission Trip, Bamenda, Cameroon (May 2010)
- Mayo Medical School/Brighter Tomorrow's Winter Warmth Festival (Jan 2009 & Jan 2010)
 - Fun day of activities for children battling cancer and their families
 - Volunteer
- Veteran Affairs Disaster Emergency Medical Personnel System (DEMPS)
 - Volunteer (Aug 2009-present)
- FCO Optometry Mission Trip, Port Au Prince, Haiti (Feb 2007)
- SVOSH Medical Mission Trip, Addis Addaba, Ethiopia (Mar-Apr 2006)
- FCO Optometry Mission Trip, Tegucigalpa, Honduras (Apr 2003 & Nov 2004)

Honors/Rewards:

- Recognition of Excellence in Teaching as Clinical Assistant Professor, Western University Health Sciences/College of Optometry (2015-2016 Academic Year)
- Nomination for Medical Staff Clinical Excellence Award (2012 & 2013)
- Recognition for Outstanding Dedication and Service as Adjunct Assistant Professor, University of Missouri – St. Louis (2010-2011 Academic Year)
- Journal of the American Optometric Association: Optometry's Eagle Award (Nov 2010)
- Certificate of Appreciation (July 2009)
 - Department of Veterans Affairs – VISN 23
 - Awarded for participation in VISN 23 Blind and Low Vision Continuum of Care Conference
- Recognition for Clinical Excellence (May 2007)
- Derald Taylor Low Vision Award (May 2007)
- Clinical Dean's List (summer 2005; summer & fall 2006, winter & spring 2007)
- Academic Dean's List (fall 2004)
- Wildermuth Leadership Award/Scholarship (Aug 2006)
- Vistakon Acuvue Eye Health Advisor Citizenship Scholarship (Jan 2006)
- NOSA Service Award/Scholarship (Aug 2004)

Publications:

Pruitt JA. *The Management of Homonymous Hemianopsia Secondary to Hemispheric Ischemic Cerebral Vascular Accident. Accepted for publication by Review Optometry (July 2010).*

Rittenbach TL, Pruitt JA. A Roundup of Recently Approved Ophthalmic Drugs (and their Use in Practice.) *Rev Optom.* 2014. 151(2):22-28.

Pruitt JA. Management strategies for patients with AION. *Rev Optom.* 2011. 148(6):57-65.

Pruitt JA. Neuro-Optometric Rehabilitation Association Program Summary. *Optimum VA: The Official Newsletter of the National Association of VA Optometrists Summer 2010.*

Pruitt JA, Ilsen P. On the frontline: What an optometrist needs to know about myasthenia gravis. *Optometry* 81(9): 454-460.

Pruitt JA, Sokol T, Maino D. Fragile X Syndrome and the Fragile X-associated Tremor/Ataxia Syndrome. *Eye Care Review: Ophthalmology, Optometry, Opticianry* 4(2): 17-23

Posters/Presentations

Pruitt JA. The Curious Case of the Functionally Legally Blind Patient with 20/25 (6/7.5) Visual Acuity. *Accepted into American Optometric Association Annual Meeting: Optometry's Meeting (2012) Poster Session.*

Pruitt JA, Prussing N. Successfully Treated Horizontal Diplopia Returns with Subsequent Traumatic Brain Injury. *Accepted into American Optometric Association Annual Meeting: Optometry's Meeting (2012) Poster Session.*

Pruitt JA, Prussing N. The Curious Case of the Functionally Legally Blind Patient with 20/25 (6/7.5) Visual Acuity. European Academy of Optometry and Optics Annual Meeting (2012) Poster Session.

Pruitt JA, Prussing N. Successfully Treated Horizontal Diplopia Returns with Subsequent Traumatic Brain Injury. European Academy of Optometry and Optics Annual Meeting (2012) Case Presentation Session.

Pruitt JA, Prussing N. Traumatic Brain Injury Resulting in Horizontal Diplopia Resolved 5 Years Later with 12 Weeks of Vision Therapy. Minnesota Optometric Association Annual Meeting (2012) Poster Session.

Pruitt JA, Wiley LM. Overcoming Mental Barriers in Visual Rehabilitation. American Optometric Association Annual Meeting: Optometry's Meeting (2011) Poster Session.

Pruitt JA, Prussing N. Traumatic Brain Injury Resulting in Horizontal Diplopia Resolved 5 Years Later with 12 Weeks of Vision Therapy. European Academy of Optometry and Optics Annual Meeting (2011) Poster Session.

Pruitt JA. Overcoming Mental Barriers in Visual Rehabilitation. European Academy of Optometry and Optics Annual Meeting (2011) Case Presentation Session.

Pruitt JA, Wiley LM. Overcoming Mental Barriers in Visual Rehabilitation. Minnesota Optometric Association Annual Meeting's (2011) Poster Session

Pruitt JA, Ilsen P, Yeung C. Ptosis Crutch: Success Treating Myogenic Ptosis Secondary to Myasthenia Gravis. American Optometric Association (AOA) 2008 Optometry Meeting Poster Session

Pruitt JA, Ilsen P. Ptosis Crutch: Success Treating Myogenic Ptosis Secondary To Myasthenia Gravis. Southeastern Congress of Optometry (SECO) 2008 Multimedia Poster Session

Lectures and Other:

Riverside-San Bernardino County Indian Health, Inc.: Eye Care Rounds (Nov 2016)

- Ptosis Crutch: Success Treating Myogenic Ptosis Secondary to Myasthenia Gravis
- CA Board of Optometry-approved CE

Riverside-San Bernardino County Indian Health, Inc.: Eye Care Rounds (Sept 2016)

- Visual Fields
- CA Board of Optometry-approved CE

Riverside-San Bernardino County Indian Health, Inc.: Eye Care Rounds (July 2016)

- Ethical Concerns with Short-term Mission Trips
- CA Board of Optometry-approved CE

Riverside-San Bernardino County Indian Health, Inc.: Eye Care Rounds (July 2016)

- Systemic Urgencies and Emergencies
- CA Board of Optometry-approved CE

Riverside-San Bernardino County Indian Health, Inc.: Eye Care Rounds (Mar 2016)

- Episcleritis, Scleritis, and Iritis
- CA Board of Optometry-approved CE

Illinois College of Optometry: Practice Opportunities Symposium (Mar 2011)

- Represented and presented on VA Optometry
- Participated in panel discussion on "Residency-trained Optometrists"

University of Minnesota: Pre-Optometry Club (Oct. 2010)

- Presentation on the profession of Optometry
- Presented and represented VA Optometry and NOA

Illinois College of Optometry: Capstone Ceremony (May 2010)

- Represented and presented on VA Optometry

Illinois College of Optometry: Practice Opportunities Symposium (Mar 2010)

- Participant in Residency-trained Speaker's Panel
- Represented and presented on VA Optometry

Illinois College of Optometry: White Coat Ceremony/Smart Business Program (Sept 2009)

- Participant on Recent Graduate Speaker's Panel