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**Education**


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Rotating Clerkship (june-sept). Cleveland Clinic Foundation (CCF).Cleveland, OH. U.S.A	1995
Rotating Externship (june-sept). St Barnabas Hospital. Bronx, NY. U.S.A	1996
Underserved Area Physician. Dominican Social Assistance Program. Dom. Rep.	1998-1999
Internal Medicine Internship. Wayne State University (WSU-DMC), Detroit, MI. U.S.A	2000-2001
Internal Medicine Residency. Wayne State University (WSU-DMC), Detroit, MI. U.S.A	2001-2003
Cardiovascular Diseases Fellowship. University of Colorado (UCHSC). Denver, CO. U.S.A	2003-2005
Interventional Cardiology Research Fellow. University of Colorado (UCHSC). Denver, CO. U.S.A	2005-2006
Interventional Cardiology Clinical Fellow. University of Colorado (UCHSC). Denver, CO. U.S.A	2006-2007

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**Board Certification**


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Diplomat American Board Interventional Cardiology	10/2007
Diplomat American Board of Cardiovascular Diseases	10/2006
Diplomat American Board of Internal Medicine	9/2003

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**Honors**


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Appointed Fellow of the American College of Cardiology (ACC)	2008
Appointed Fellow of the Society Coronary Angiography Interventions	2008
Appointed Fellow of the American College of Physicians (ACP)	2008
Strathmore Who's Who in Cardiology and Consumer Research Council of America Doctor Distinctions	2006
Outstanding Research Fellow Award, UCHSC	2006
Society of Cardiovascular Angiography and Interventions (SCAI) and General Electric (GE) "Research Award Finalist and Winner"	2006
2006 ACCF/Bristol-Myers Squibb Competitive Award	2006
2nd Annual Cardiology Fellows Clinical Research Conference	2006
Society of Cardiovascular Angiography and Interventions (SCAI) and General Electric (GE) "Research Award Finalist"	2005
American Medical Association Leadership Award American Medical Association Excellence in Medicine Award	2004
Outstanding First Year Fellow Award, UCHSC	2004
Outstanding Senior Resident Award, Wayne State University	2003
Best Resident of the Clinic Award, Wayne State University	2002, 2003
Resident of the year Award, Wayne State University	2002, 2003
Best Resident Presenter Award, Wayne State University	2002
VA Resident of the Month Award, Wayne State University	2002
Intern of the year Award, Wayne State University	2001
CPC Recognition Award, Detroit Medical Center (WSU-DMC) Recognition Award	2002, 2003
5th Annual Hypertension Symposium, Wayne State University	2002
Best Abstract Nomination Award; Young Investigator Award 26th International Congress of Internal Medicine	2002

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**Publications**


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Journal Publications

On-line multi-slice computed tomography interactive overlay with conventional X-ray: A new and advanced imaging fusion concept. Garcia, JA ; Bhakta S, Hay J, Chan K, Wink O, Ruijters D MD; Carroll, JD. *Int J Cardiol.* 2008 Jan 28; [Epub ahead of print]. PMID: 18234371

4D Coronary Artery Reconstruction Based on Retrospectively Gated Rotational Angiography: First In-Human Results. B. Movassaghi, M. Grass, D. Schaefer, V. Rasche, O. Wink, G. Schoonenberg, J. Y. Chen, J. A. Garcia, B. M. Groves, J. C. Messenger, and J. D. Carroll. *Medical Imaging 2007: Visualization and Image Guided Procedures. Procedures of SPIE 2007;* Vol. 6509: 1605-7422.

Three Dimensional Reconstruction of Coronary Stents In Vivo Based on Motion Compensated X-Ray Angiography. Dirk Schaefer, Babak Movassaghi, Michael Grass, Gert Schoonenberg, Raoul Florent, Onno Wink, Andrew J. Klein, James Y. Chen, Joel Garcia, John C. Messenger, and John Carroll. and J. D. Carroll. *Medical Imaging 2007: Visualization and Image Guided Procedures. Procedures of SPIE 2007;* Vol. 6509: 1605-7422.

Use of the Transeptal Approach for Successful Closure of an Iatrogenic Ventricular Septal Defect after Prosthetic Aortic Valve Replacement with an Amplatzer Ventricular Septal Occluder Device: A Novel Approach to Threading a Moving Needle. A. Klein, MD; J. Garcia, MD; J. Carroll, MD. *Catheter Cardiovasc Interv.* 2007 Jul 9;Epub ahead of print. PMID: 17621666

Image Guidance of Percutaneous Coronary and Structural Heart Disease Interventions Using a Computed Tomography and Fluoroscopic Integration. J Garcia, MD; M Eng, MD; SY. Chen, MD; J. D. Carroll, MD. *Vascular Disease Management.* ISSN: 1553-8036. May 2007;4(3):89-87.

Percutaneous Closure of a Para-Prosthetic Aorto-Right Ventricular Fistula. M. Eng, MD; J. Garcia, MD; C. Chen, MD; J. D. Carroll, MD. *International Journal of Cardiology.* Epub Ahead of Print. March 23, 2007.

9TH MICCAI conference, Copenhagen, 1-6 OCT. 2006. 4D reconstruction of coronary stents in vivo based on motion compensated X-ray angiograms. Babak Movassaghi, Dirk Schaefer, Michael Grass, Volker Rasche, Onno Wink, Joel A. Garcia, James Y. Chen, John C. Messenger, And John D. Carroll. *Lecture Notes in Computer Science. Medical Image Computing and Computer-Assisted Intervention-MICCAI 2006;*4191:177- 184.

Initial Clinical Experience of Selective Coronary Angiography Using One Prolonged Injection and a 180 Degree Rotational Trajectory. Joel A. Garcia, M.D., A. Hansgen, BS; A. Klein, MD; J. Messenger, MD; B. Movassaghi, PhD; O. Wink, PhD; I. Casserly, MD; J.D. Carroll, MD. *CCI.* Epub ahead of print. PMID: 17295325

Simultaneous Multivessel Acute Drug-Eluting Stent Thrombosis J. Garcia, MD; A. Hansgen, BS, I. Casserly, MD. *International Journal of Cardiology.* 2006 Oct 26;113(1):E11-5.

Rotational Angiography (RA) and Three-Dimensional Imaging (3DRA) Joel A. Garcia, M.D., Michael A. Robertson, M.D., Adam Hansgen, BS, Onno Wink, PhD, J. Chen PhD, B. Movassaghi, PhD; and John Messenger, M.D. *Int J Cardiovasc Imaging.* 2007 Feb;23(1):9-13. PMID: 16779617

Impending Left Ventricular Rupture. Garcia JA, MD; Eng M, MD; Hansgen A, BS, Krantz M. *Clin Cardiol.* 2007 Jun 13; Epub ahead of print. PMID: 17567842

Cases of rhythm disturbances: What the ECG shows. Garcia, JA, Krantz M; Baker W. *Consultant* 2005;45(3)327-330.

Pseudo-Torsades de Pointes with underlying wandering atrial Pacemaker" Krantz M; Garcia JA. *Clinical Cardiology.* 2005 Jul;28(7):355

Buprenorphine does not impact repolarization in a patient with Methadone associated Torsades de Pointes. Krantz M; Garcia JA; Leukowicz L. *Pharmacotherapy* 2005;25(4):611-614

Dyslipidemia in High-Risk Patients: A Rational Approach to Therapy Krantz MJ, Garcia JA. *Consultant* 2004;44(10):1321-8

Two cases of ST-segment elevation: What the ECG shows. Consultant Garcia JA.; Baker, W; Krantz, M. *Consultant* 2004;44(10):1343-6

Tramadol-Associated Pericarditis. *International Journal of Cardiology*. Krantz MJ, Garcia JA 2005;99:497-498 PMID: 15771942

Metabolic disturbances: What the ECG shows. Krantz MJ, Garcia JA. *Consultant* 2004;44(6):803-8.

Sarcoidosis Presenting As Testicular Mass: Case Report and Review Abstract Presentation for Society General Internal Medicine L. Corsino, MD; J. Garcia, MD. *Journal of General Internal Medicine* April 2003;18(1):24.

Heparin Induced Pancreatic Necrosis and Myocardial Infarction. Poster/Abstract Presentation for Society General Internal Medicine J. Garcia, MD. *Journal of General Internal Medicine* May 2003;18(1):51.

Potts-Puffy Tumor: Forgotten Complication of Frontal Sinusitis. Abstract Presentation for Society General Internal Medicine L. Corsino, MD; J. Garcia, MD. *Journal of General Internal Medicine* April 003;18(1):42.

Unique presentation of diphtheria. A case report. Abstract presentation for Society General Internal Medicine J. Garcia, MD. *Journal of General Internal Medicine* April 2002;17(1):41

Myocardial Infarction in Tricuspid Atresia S/P Fontan procedure. Abstract Presentation for Society General Internal Medicine. J. Garcia, MD. *Journal of General Internal Medicine* April 2002;17(1):41

Elevated Serum Proteins in patients with Hepatitis c Infection. Abstract Presentation for Society General Internal Medicine J. Garcia, MD. *Journal of General Internal Medicine* April 2002;17(1):123

Effects of NTG vs ANP in Perfused Rat Hearts according to Langendorff. Abstract Presentation for Society General Internal Medicine J. Garcia, MD. *Journal of General Internal Medicine* April 2002;17(1):241

Fulminant Hepatic Failure Induced By sickle Cell Vaso-Occlusive Crisis. Abstract Presentation for Society General Internal Medicine O. Degani, MD; J. Garcia, MD. *Journal of General Internal Medicine* April 2002;17(1):37

#### Journal Publications (Included as Conference Abstracts)

Computed Tomographic Angiography (CTA) use in Percutaneous Coronary Intervention Planning and Execution: A Validation Study of 3D Coronary Features. J. Garcia, M.D., A. Hansgen, BS; J. Messenger, MD; B. Movassaghi, PhD; O. Wink, PhD; J. Chen, PhD; J. Carroll. MD. *CRT* 9 (2008) 101.

On-Line Multi-slice computerized Tomography Interactive Overlay to Live X- Ray: A New and Advance Imaging Fusion Concept. J. Garcia, M.D., A. Hansgen, BS; J. Messenger, MD; B. Movassaghi, PhD; O. Wink, PhD; J. Chen, PhD; J. Carroll. MD. CRT 9 (2008) 101.

The Quest for the Optimal Angiographic Projection of All Segments in the Coronary Arterial Tree: A 3D Reconstructed Model Analysis. Joel A. Garcia, M.D., A. Hansgen, BS; A. Klein, MD; J. Messenger, MD; B. Movassaghi, PhD; O. Wink, PhD; J. Chen, PhD, I. Casserly, MD; J. Carroll, MD. CRT 9 (2008) 101.

Three –dimensional reconstruction of coronary stents in vivo based on motion compensated X-ray angiography. D. Schaeffer, B. Movassaghi, Michael Grass, Gert Schoonenberg, Raoul Florent, Onno Wink, Andrew J Klein. James Y Chen, Joel Garcia, John Messenger and John Carroll. Medical Imaging 2007: Visualization and Image-Guided Procedures, edited by Kevin R. Cleary, Michael Miga. Proc. Of SPIE Vol. 65091M, 65091MP1-8, (2007)

4D coronary artery reconstruction based on retrospectively gated rotational angiography: first in human results. B. Movassaghi, M Grass, D. Schaefer, V. Rasche, O. Wink, G. Schoonenberg, JY Chen, J. Garcia, JC Messenger and JD Carroll. Medical Imaging 2007: Visualization and Image-Guided Procedures, edited by Kevin R. Cleary, Michael Miga. Proc. Of SPIE Vol. 6509, 65090P1-6, (2007)

Optimal Angiographic Views Based on 3D Reconstructed Models. A. Klein, MD; B. Movassaghi, PhD; J. Garcia, MD; A. Hansgen, BS, James Y. Chen I. Casserly, MD, J. D. Carroll, MD. American College of Cardiology 56th Scientific Session. March 24-27, 2007 JACC 2007;49 (9) Supplement B: 296A

Initial Clinical Experience of Selective Coronary Angiography Using One Prolonged Injection and a 180 Degree Rotational Trajectory. Joel A. Garcia, M.D., A. Hansgen, BS; A. Klein, MD; J. Messenger, MD; B. Movassaghi, PhD; O. Wink, PhD; J. Chen, PhD, I. Casserly, MD; J. Carroll, MD. CCI SCAI Supplement. 2007

Three-Dimensional Gated Reconstructed Images of the Coronary Arteries Based on Rotational Coronary Angiography: First in Human Results. B. Movassaghi, PhD; J. Garcia, MD; A. Hansgen, BS, James Y. Chen I. Casserly, MD, J. Carroll, MD. Lecture Notes in Computer Science. Medical Image Computing and Computer-Assisted Intervention-MICCAI 2006;4191:177-184

Three-Dimensional Gated Reconstructed Images of the Coronary Arteries Based on Rotational Coronary Angiography: First in Human Results. B. Movassaghi, PhD; J. Garcia, MD; A. Hansgen, BS, I. Casserly, MD., James Y. Chen, J. Carroll, MD. Circulation 2006;114 (18): II-506

Four Dimensional Gated Reconstructed Images of the Coronary Arteries Based on Rotational Coronary Angiography (3DRA): First in Human Results. J. Garcia, MD; B. Movassaghi, PhD; A. Hansgen, BS, James Y. Chen PhD, I. Casserly, J. Carroll, MD. American Journal of Cardiology. Trans Catheter therapeutics (TCT). AJC 2006; 98 (8):104M

In Vivo Three Dimensional Reconstruction of Coronary Stents Based on Motion Compensated X-Ray Angiograms: First in Human Results. J. Garcia, MD; B. Movassaghi, PhD; A. Hansgen, BS, James Y. Chen, I. Casserly, MD., J. Carroll, MD. American Journal of Cardiology. Trans Catheter therapeutics (TCT). AJC 2006; 98 (8):104M

#### Book Chapters

Critical Care Secrets. Chapter in Myocardial Contusion Critical Care Secrets Series. Hanley & Belfus J. Garcia, MD and J. Messenger, MD.

900 Questions: An Interventional Cardiology Board Review Chapter in Long Lesions. Lippincott Williams & Wilkins J. Garcia, MD and I. Casserly, MD.

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**Funded Research**

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**Image Content Study (Clinical Trial)**

Role: primary patient enrollee, data collection/analysis

Funding: Philips Medical Systems, N.A.

Status: currently enrolling (50 / 50 patients enrolled)

**Inflammatory Markers during PCI (Clinical Trial)**

Role: primary patient enrollee, data collection/analysis

Funding: Eli Lilly, Inc.

Status: Enrolling

**3-D Guided PCI (Clinical Trial)**

Role: primary grant author, primary patient enrollee, data collection/analysis

Funding: Philips Medical Systems, N.A.

Status: Protocol in process, expected enrollment July 1, 2004

**Stent Implantation Study (SIS) (Clinical Trial)**

Role: primary grant author, primary patient enrollee, data collection/analysis

Funding: Philips Medical Systems, N.A.

Status: Protocol in process, expected enrollment July 1, 2005

**Clinical Evaluation of 3D Coronary Angiography (Clinical Trial)**

Role: primary patient enrollee, data collection/analysis

Funding: Philips Medical Systems, N.A.

Status: Approved