

## A. GENERAL INFORMATION



**Name:** Friedrich Boettner, MD  
**Office address:** Hospital for Special Surgery  
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**Languages:** German: native language  
English: fluent  
Spanish: intermediate  
Russian: intermediate

**Nationality:** Germany, USA

## B. EDUCATIONAL BACKGROUND

School	Institution Name	Institution Location	Dates Attended	Year Awarded
Medical School	Rostock University Medical School	Rostock, Germany	9/1991-12/1997	12/1997
Medical School Visitorship: Surgery/Radiology	George Mason University	Fairfax, Virginia	8/1992-9/1992	
Diploma in Traditional Chinese Medicine	World Health Organization	Beijing, China	2/1994-3/1994	3/1994
Medical School Rotation: Orthopaedic Surgery	New York University, Bellevue Hospital	New York, NY	9/1999-12/1996	
Medical School Rotation: Internal Medicine	Tulane University, Tulane Medical Center	New Orleans, LA	1/1997-4/1997	
Medical School Rotation: General Surgery	Stellenbosch University, Medical School	Stellenbosch, South Africa	5/1997-8/1997	
Medical School Rotation: Orthopaedic Surgery	University of Birmingham, Medical School	Birmingham, United Kingdom	9/1997-10/1997	

## C. PROFESSIONAL EDUCATION

### Postdoctoral Training

Title	Institution Name and Location	Dates held
<b>Residency:</b> Orthopaedic Surgery		
Internship	Department of Orthopaedics University Hospital Muenster, Germany	January 1 <sup>st</sup> 1998 until June 30 <sup>th</sup> 1999
Residency Training	Department of Orthopaedics University Hospital Muenster, Germany	July 1 <sup>st</sup> 1999 until January 31 <sup>st</sup> 2004
<b>Fellowship Training</b>		
Research Fellowship	T.P. Sculco, MD; Hospital for Special Surgery, New York, NY 10021	September 1 <sup>st</sup> 2000 until August 31 <sup>st</sup> 2001
Fellowship Adult Reconstruction & Joint Replacement	Hospital for Special Surgery, New York, NY 10021	August 1 <sup>st</sup> 2004 until July 31 <sup>st</sup> 2005
Fellowship: Sports Medicine	Steadman Hawkins Clinic of the Carolinas, Greenville Hospital System, Greenville, SC	August 1 <sup>st</sup> 2005 until July 31 <sup>st</sup> 2006
Fellowship Hip Arthroscopy	Steadman Hawkins Clinic, Vail, CO	September 1 <sup>st</sup> 2006 until November 30 <sup>th</sup> 2006

## Academic Positions

<b>Title</b>	<b>Institution Name and Location</b>	<b>Dates held</b>
"Dr. med."	Degree Thesis, Department of Cardiology, Rostock University, Medical School	7/1998
Research and Teaching Associate	Wilhelms University Northrhine Westfalia, Muenster, Germany	July 1 <sup>st</sup> 1999 until July 31 <sup>st</sup> 2004
Senior Clinical Associate	Weill Medical College of Cornell University, New York, NY	August 1 <sup>st</sup> 2004 until July 31 <sup>st</sup> 2005
Instructor in Orthopaedic Surgery	Weill Medical College of Cornell University, New York, NY	December 1 <sup>st</sup> 2006 until December 14 <sup>th</sup> 2008
Assistant Professor of Orthopaedic Surgery	Weill Medical College of Cornell University, New York, NY	December 15 <sup>th</sup> 2008 until November 2014
Professor of Orthopaedic Surgery	Hamburg University Medical School	September 24 <sup>th</sup> 2018 until June 30 <sup>th</sup> 2019
Associate Professor of Orthopaedic Surgery	Weill Medical College of Cornell University, New York, NY	December 1 <sup>st</sup> 2014 until now

## Hospital Positions

<b>Title</b>	<b>Institution Name and Location</b>	<b>Dates held</b>
Attending Orthopaedic Surgeon	Department of Orthopaedics University Hospital Muenster, Germany	January 31 <sup>st</sup> 2004 until July 31 <sup>st</sup> 2005
Assistant Attending Orthopaedic Surgery	Hospital for Special Surgery, New York, NY 10021	August 1 <sup>st</sup> 2006 until November 2014
Chief of Orthopaedics	University Hospital Hamburg Eppendorf, Germany	September 24 <sup>th</sup> 2018 May 31 <sup>st</sup> 2019
Associate Attending Orthopaedic Surgery	Hospital for Special Surgery, New York, NY 10021	December 1 <sup>st</sup> 2014 until now

## **D. LICENSURE, BOARD CERTIFICATION, MALPRACTICE**

### **1. Licensure:**

07/1999      unrestricted medical license in Germany, NorthRhine Westfalia  
07/2004      Limited Permit, New York (P37730)  
07/2005      Limited License, South Carolina (LL27766)  
08/2006      Limited License, New York (002653)  
09/2009      Full License, New York (253920)

### **2. Board Certification**

01/2004      "Facharzt für Orthopädie", Certificatation as Orthopaedic Surgeon,  
Münster, Germany  
08/2013      Board Certified Orthopaedic Surgeon, American Board of Orthopaedic  
Surgeons

### **3. Malpractice Insurance**

MIAC malpractice insurance plan, Hospital for Special Surgery  
Primum paid by: Friedrich Boettner, MD PC (self)

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## E. PROFESSIONAL MEMBERSHIPS

<b>Member/Officer</b>	<b>Name of Organization</b>	<b>Date held</b>
Member	South German Orthopaedic Association, Germany	1999
Member	German Society of Orthopaedics and Trauma Surgery, Germany	2001
Member	North German Orthopaedic Association, Germany	2001
Member	Orthopaedic Research Society, ORS	2007
Member	New York Medical Society	2006
Member	Arthroscopy Association of North America, AANA	2006
Member	International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, ISAKOS	2006
Member	American Academy of Orthopaedic Surgery, AAOS	2000
Member	Society for the Advancement of Blood Management	2007
Member	American Association of Hip and Knee Surgeons, AAHKS	2009
Member	Eastern Orthopaedic Association	2006
Member	European Knee Society	2017
Member	German Knee Society	2018
Member	AO North America	2019

## F. HONORS AND AWARDS

Name of Award	Date Awarded
<b>Travelling Fellowship</b> North German Orthopaedic Association	May – June 2000
<b>Award for Excellence in Blood Management</b> by the Orthopaedic Research and Education Foundation	August 2005
<b>2<sup>nd</sup> Place Resident Poster Exhibit</b> New York State Society of Orthopaedic Surgeons Annual Meeting, New York, NY- Poster Competition.	October 2009
<b>Best Abstract Award</b> , Annual Meeting European Society of Anesthesiology	November 2013
<b>Best Poster Award</b> , Annual Meeting, North German Orthopaedic Association	June 2013
<b>Best Meeting Abstract</b> at the 39 <sup>th</sup> American Society of Regional Anesthesia and Pain Medicine Annual Meeting, Chicago, IL	April 2014
<b>Runner-up Best Abstract</b> at the 2014 Annual Successful and Productive Academic Research Careers (SPARC) Conference, New York	Mai 2014
<b>Best Poster Award</b> , EFFORT Meeting, London	Mai 2014
<b>Best Paper Award</b> , World Arthroplasty Congress, Paris	Mai 2015
<b>Best Poster Award</b> , European Knee Society Annual Meeting, London	April 2017

## **G. INSTITUTIONAL/HOSPITAL AFFILIATION**

### **1. Primary Hospital Affiliation**

Hospital for Special Surgery, New York, NY

### **2. Other Hospital Affiliation**

New York Presbyterian Hospital, New York, NY

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## **H. EMPLOYMENT STATUS**

### **1. Name of Current Employer:**

- Hospital for Special Surgery, New York, NY
- Friedrich Boettner, MD PC

### **2. Employment Status:**

- Part-time salaried at Cornell-affiliated hospital: Hospital for Special Surgery
  - Part-time self employed by Friedrich Boettner, MD PC
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## I. CURRENT AND PAST INSTITUTIONAL RESPONSIBILITIES AND PERCENT EFFORT

Name of Activity/Committee	Start Date (Months/Year)	End Date (Months/Year)
1. Co-Director, Blood Preservation Center	06/09	12/14
2. ARJR Research & Innovation Committee	06/09	now
3. Practice Automation Task Force	07/09	12/14
4. Recuperative Pain Task Force	07/09	12/15
5. Medical Student Advisory Committee	08/09	Now
6. Head Medical Student Advisory Committee	6/17	12/18
7. Resident Selection Committee	7/17	Now
8. Operating Room Block Time Committee	09/09	7/16
9. Navigation & Imaging Task Force	09/09	12/12
10. Transfusion Committee	07/10	now
11. Perioperative Steering Committee	09/10	1/16
12. Operating Room Efficiency Program	1/16	now
13. Physician Referral Service Task Force	1/16	9/18

## K. EXTRAMURAL PROFESSIONAL ACTIVITIES

### 1. Reviewer:

2004 – now                                      Clinical Orthopaedics and Related Research  
2007 – now                                      Hospital for Special Surgery Journal

2009 – now	Der Unfallchirurg
2010 – now	Clinical Biomechanics
2009 – now	Archives of Orthopaedic and Trauma Surgery
2010 – 2016	Editorial Board “ Grand Rounds From HSS Management of Complex Cases”
2011 – now	ESSKA scientific journal; Knee Surgery, Sports Traumatology, Arthroscopy
2012 – now	American Journal of Bone and Joint Surgery
2013 – now	Comparative Medicine
2013 – now	Annals of Orthopaedics and Rheumatology
2015 – now	Journal of Arthroplasty
2015 – now	Bone and Joint Journal (British JBJS)

## 2. Consultancy

- **Smith & Nephew:** Consultant to develop components of a revision knee replacement  
3/2013 until now
- **OrthoDevelopment:** Consultant to develop primary knee replacement and primary total hip replacement  
5/2012-now
- **Depuy:** Consultant for Training Course Direct Anterior Total Hip Replacement  
3/2015-now
- **Medtronic:** Consultant  
3/2019-now

## 3. Other Professional Activities:

- CEO of the OrthoForum LLC publishing company, Berlin, Germany  
9/2005 until now

## L. BIBLIOGRAPHY

### 1 Peer Reviewed Publications

1. Bottner F, Wortler K, Link T.  
Osteoid osteoma.  
J Bone Joint Surg Br. 2000 Mar; 82(2):306-7

2. Rodl RW, Ozaki T, Hoffmann C, Bottner F, Lindner N, Winkelmann W. Osteoarticular allograft in surgery for high-grade malignant tumours of bone. J Bone Joint Surg Br. 2000 Sep; 82(7): 1006-10.
3. Wortler K, Vestring T, Boettner F, Winkelmann W, Heindel , Lindner N. Osteoid osteoma: Ct-guided percutaneous radiofrequency ablation and follow-up in 47 patients. J Vasc Interv Radiol. 2001; 12(6):717-22.
4. Pavone V, Bottner F, Fickert S, Sculco TP. Total Condylar Knee Arthroplasty: A long-term followup. Clin Orthop 2001; 388: 18-25
5. Bottner F, Roedl R, Wortler K, Grethen C, Winkelmann W, Lindner N. Cyclooxygenase-2 Inhibitor for Pain Management in Osteoid Osteoma. Clin Orthop 2001; 393: 258-263
6. Gosheger G, Ludwig K, Hillmann A, Meier N, Boettner F, Winkelmann W. Extended-field CT-Technik zur Evaluation von periprosthetischen Knochenläsionen – In vitro Untersuchung. Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 2001; 173: 1099-1103
7. Bottner F, Pavone V, Johnson T, Heitkemper S, Sculco TP. Blood management in bilateral total knee arthroplasty. Clin Orthop 2003; 410: 254-261
8. Bottner F, Sheth N, Chimento GF, Sculco TP. Cytokine levels after transfusion of washed wound drainage in total knee arthroplasty: a randomized trial comparing autologous blood and washed wound drainage. J Knee Surg 2003; 16(2): 93-7
9. Bottner F, Rodl R, Kordish I, Winkelmann W, Gosheger G, Lindner N. Surgical treatment of symptomatic osteochondromata. A three- to eight year follow-up study. J Bone Joint Surg 2003; 85-B: 1161-1165
10. Fuchs S, Sandmann C, Gerdemann G, Skwara A, Tibesku CO, Bottner F. Quality of life and clinical outcome in salvage revision total knee replacement: hinged vs. total condylar design. Knee Surg Sports Traumatol Arthrosc 2004; 12: 140-3
11. Pavone V, Johnson T, Saulog PS, Sculco TP, Bottner F. Perioperative Morbidity in Bilateral One-Stage Total Knee Replacements. Clin Orthop 2004; 421: 155-161
12. Bottner F, Steinbeck J, Winkelmann W, Gotze C. The acetabular augmentation ring for recurrent dislocation in revision total hip arthroplasty. Clin Orthop 2005; 436: 151-157
13. Bottner F, Zawasky M, Su EP, Bostrom M, Palm L, Ryd L, Sculco TP. The influence of the weight bearing protocol on implant migration after cementless total hip arthroplasty. A radiostereometric analysis. Clin Orthop 2005; 436: 132-137
14. Gotze C, Vieth V, Meier N, Bottner F, Steinbeck J, Hackenberg L. CT-based accuracy of implanting custom made endoprostheses. Biomech 2005; 20 (8): 856-862

15. YaDeau JT, Cahill JB, Zawadsky MW, Sharrock NE, Bottner F, Morelli CM, Kahn RL, Sculco TP. The effects of femoral nerve blockade in conjunction with epidural analgesia after total knee arthroplasty. *Anesth Analg* 2005; 101(3): 891-895
16. Gotze C, Tschugunow A, Gotze HG, Bottner F, Potzl W, Gosheger G. Long-term results of the metal-cancellous cementless Lubeck total hip arthroplasty: A critical review at 12.8 years. *Arch Orthop Trauma Surg* 2005; 10: 1-8
17. Bottner F, Laskin R, Windsor RE, Haas SB Hybrid Component Fixation in Revision Total Knee Arthroplasty *Clin Orthop* 2006; 446: 127-131
18. C. Götze, A. Tschugunow, F. Wiegelmann, N. Osada, H.G. Götze, F. Bottner. Langfristiger Einfluss der anatomisch angepaßten spongiösen Endoprothese auf den periprothetischen Knochen - Eine radiologische und osteodensitometrische Analyse nach Implantation der S&G (ESKA) Hüftendoprothese. Long term Influence of the Spongiosa Metal Surface Prothesis (S&G, ESKA) on the Periprosthetic Bone. Measurement of Periprosthetic Bone Density Using Radiography and Dual-Energy X-Ray Absorptiometry. *Z. Orthop* 2006; 144: 192-198
19. Cichon CW, Bottner F, Rodl R, Winkelmann W, Lindner N. [Minimally Invasive Treatment of Osteoid Osteoma with CT-Guided Radiofrequency Ablation in Long-Term Follow-Up.] *Z. Orthop* 2006; 144: 332-7
20. Swanson KC, Gonzalez Della Valle A, Salvati EA, Sculco TP, Bottner F. Perioperative Morbidity after single-stage bilateral total hip arthroplasty. *Clin Orthop* 2006; 451: 140-145
21. Bottner F, Wegener A, Becker K, Erren M, Goetze C. Interleukin 6, Procalcitonin and TNF-alpha: markers of periprosthetic infection following total joint replacement. *J Bone J Surg* 2007; 89: 94-9
22. Götze C, Steens W, Vieth V, Marquardt B, Bottner F. Der Einfluss der Knochendichte auf die Primaerstabilität von zementfreien Femurschaftprothesen – Eine Biomechanische In-vitro-Studie. The Influence of Reduced Bone Density on primary Stability of Cementless Femoral Components. A Biomechanical in Vitro Study. *Z. Orthop* 2007; 145: 307-312
23. Pellicci PM, Potter H, Foo LF, Bottner F. MRI Shows Biologic Restoration of Posterior Soft Tissue Repairs after THA. *Clinical Orthopaedics and Related Research* 2009; 467(4):940-5
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26. Bottner F, Altneu E, Williams A, Hepinstall M, Sculco TP. Non-Anemic Patients do not benefit from Autologous Blood Donation in Total Hip Replacement. *HSS J.* 2010; 6(1): 66-70

27. Heyse TJ, Decking R, Davis J, Boettner F, Laskin RS. Varus Gonarthrosis Predisposes to Varus Malalignment in TKA. HSS Journal 2009, 5(2): 143-148
28. Philips BD, Liu SS, Wukovits B, Boettner F, Waldman S, Liguori G, Goldberg S, Goldstein L, Melia J, Hare M, Jasphey L, Tondel S. Creation of a Novel Recuperative Pain Medicine Service to Optimize Postoperative Analgesia and Enhance Patient Satisfaction HSS J. 2010; 6(1): 61-5
29. Heyse TJ, Chen DX, Kelly N, Boettner F, Wright TM, Haas SB; Matched-pair total knee arthroplasty retrieval analysis: Oxidized zirconium vs. CoCrMo.; Knee, 2011; 18: 448-452
30. Kendoff D, Citak M, Stueber V, Nelson L, Pearle AD, Boettner F. Feasibility of a navigated registration technique in FAI surgery. 2010 Archives of Orthopedic Trauma Surgery, 2011ö 131(2): 167-172
31. Stephen Kim, Eric Altneu, Jad Bou Monsef, Elizabeth A. King, Thomas P. Sculco, Friedrich Boettner. Nonanemic Patients Do Not Benefit from Autologous Blood Donations Before Total Knee Replacement. HSS J 2011; 7(2): 141-144
32. Johannes Schnependahl, Marcel Betsch, Vano Petrov, Friedrich Boettner, Siemon Thelen, Jan-Peter Grassmann, Mohssen Hakimi, Joachim Windolf, Michael Wild. Recovery after hip fractures: Influence of bipolar hemiarthroplasty on physical disability and social dependency in the elderly. Hip International; 2011: 21: 751-6
33. Heyse TJ, Chong LR, Davis J, Boettner F, Haas SB, Potter HG. MRI analysis of component bone interface after TKA. Knee 2012: 19(4): 290-4
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38. Waldstein W, Monsef JB, Buckup J, Boettner F. The value of valgus stress radiographs in the work up of medial compartment arthritis. Clin Orthop 2013: 471: 3998-4003
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46. Waldstein W, Merle C, Bou Monseff J, Boettner F. Varus Knee Osteoarthritis – How Can We Identify ACL Insufficiency? *Knee Surg Sports Traumatol Arthrosc.* April 2014
47. Waldstein W, Perino G, Jawetz ST, Gilbert SL, Boettner F. Does Intraarticular Inflammation Predict Biomechanical Cartilage Properties? *Clin Orthop Relat Res,* 2014; 472(7): 2177-84
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49. Monseff JB, Della Valle AG, Mayman DJ, Marx RG, Ranawat AS, Boettner F. The impact of blood management on length of stay after primary total knee arthroplasty. *Open Orthop J* 2014; 16: 108-13.
50. Waldstein W, Jawetz ST, Farshad-Amacker NA, Merle C, Schmidt-Braekling T, Boettner F. Assessment of the lateral patellar facet in varus arthritis of the knee. *Knee* 2014; 21(5): 920-5
51. Bou Monseff J, Boettner F. Blood Management may have an impact on length of stay after total hip arthroplasty. *HSS J* 2014; 10(2): 124-30.
52. Stimac JD, Boles J, Parkes N, Gonzalez Della Valle A, Boettner F, Westrich GH. Revision Total Hip Arthroplasty With Modular Femoral Stems. *J Arthroplasty* 2014; 29(11):2167-70
53. Peran J, Rasul R, Suzuki S, Danninger T, Mazumdar M, Opperer M, Boettner F, Memtsoudis SG. Tranexamic acid use and postoperative outcomes in patients undergoing total hip or knee arthroplasty in the United States: retrospective analysis of effectiveness and safety. *BMJ* 2014; 12; 349: g4829

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55. Revised histopathological consensus classification of joint implant related pathology. Krenn V, Morawietz L, Perino G, Kienapfel H, Ascherl R, Hassenpflug GJ, Thomsen M, Thomas P, Huber M, Kendoff D, Baumhoer D, Krukemeyer MG, Natu S, Boettner F, Zustin J, Kölbl B, Rütger W, Kretzer JP, Tiemann A, Trampuz A, Frommelt L, Tichilow R, Söder S, Müller S, Parvizi J, Illgner U, Gehrke T. Revised histopathological consensus classification of joint implant related pathology. *Pathol Res Pract*. 2014 Dec;210(12):779-86.
56. Schmidt-Braekling T, Waldstein W, Akalin E, Benevanete, Frykberg B, Boettner F. Minimal invasive posterior total hip arthroplasty: are 6 weeks of hip precautions really necessary? *Arch Orthop Trauma Surg*: 2015, 135(2): 271-274
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61. Kolatat K, Perino G, Wilner G, Kaplowitz E, Ricciardi BF, Boettner F, Westrich GH, Jerabek SA, Goldring SR, Purdue PE. Adverse local tissue reaction (ALTR) associated with corrosion products in metal-on-metal and dual modular neck total hip replacements is associated with upregulation of interferon gamma-mediated chemokine signaling. *J Orthop Res*. 2015; 33(10): 1487-97
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effect on muscle oxygenation after total knee arthroplasty. HSS J. 2015; 11(2): 136-42

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## **6 Patents:**

1. US Patent Application No. 13/210,323  
For: **INSTRUMENTS FOR USE IN FEMOROACETABULAR IMPINGEMENT**



**PROCEDURES**

Filed: August 15, 2011 Accepted: 2015

Applicant: NEW YORK SOCIETY FOR THE RUPTURED AND CRIPPLED  
MAINTAINING THE HOSPITAL FOR SPECIAL SURGERY

2. US Patent Application No. temporary application

For: **A TECHNIQUE TO MEASURE ACETABULAR ANTEVERSION**

Initial Filing: June 15, 2015

Applicant: NEW YORK SOCIETY FOR THE RUPTURED AND CRIPPLED  
MAINTAINING THE HOSPITAL FOR SPECIAL SURGERY