

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ISHANU CHATTOPADHYAY	09/26/2016
	HOD LIPSON	06/23/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CORNELL UNIVERSITY	
<b>Street Address:</b>	CENTER FOR TECHNOLOGY LICENSING ("CTL") AT CORNELL UNIVERSITY	
<b>Internal Address:</b>	395 PINE TREE ROAD, SUITE 310	
<b>City:</b>	ITHACA	
<b>State/Country:</b>	NEW YORK	
<b>Postal Code:</b>	14850	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	14431131	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(312)673-0361	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Email:</b>	docket@vciplaw.com	
<b>Correspondent Name:</b>	VALAUSKAS CORDER LLC	
<b>Address Line 1:</b>	150 SOUTH WACKER DRIVE, SUITE 1650	
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606	
<b>ATTORNEY DOCKET NUMBER:</b>	9664-189	
<b>NAME OF SUBMITTER:</b>	CHARLES C. VALAUSKAS	
<b>SIGNATURE:</b>	/charles c. valauskas/	
<b>DATE SIGNED:</b>	10/26/2016	
<b>Total Attachments: 4</b>		
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## ASSIGNMENT

WHEREAS, We,

Ishanu Chattopadhyay, a citizen of India, residing at 530 S. Hyde Park Blvd., Apt. 305, Chicago, IL 60615; and

Hod Lipson, a United States citizen, residing at 641 Highland Road, Ithaca, NY 14850.

have invented certain new and useful improvements in **SYSTEM AND METHODS FOR ANALYSIS OF DATA** for which an application for Letters Patent in the United States was filed as U.S. Serial No. 14/431,131 on **March 25, 2015**; claiming priority to International Application No. **PCT/US2013/062397** on **September 27, 2013**; claiming priority to U.S. Provisional Application No. **61/762,100** on **February 7, 2013**; and claiming priority to U.S. Provisional Application No. **61/706,583** on **September 27, 2012**.

AND WHEREAS, **Cornell University**, with its principal place of business at the **Center for Technology Licensing ("CTL") at Cornell University, 395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA**, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Cornell University**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Cornell University**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Witness Signature Option

\_\_\_\_\_  
Hod Lipson

\_\_\_\_\_  
Date

\_\_\_\_\_  
First Witness Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
First Witness Printed Name

\_\_\_\_\_  
Second Witness Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Second Witness Printed Name

Notary Option

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 23<sup>rd</sup> day  
of June, 2015

Hod Lipson  
Hod Lipson

STATE OF New York  
COUNTY OF Tompkins

This 23<sup>rd</sup> day of June, 2015, before me personally came the  
above-named Hod Lipson, to me personally known as the individual  
who executed the same of his/her own free will for the purposes therein set forth.

Virginia McAuley  
Notary Public

VIRGINIA MCAULEY  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 01614758973  
Commission expires on July 31, 2018  
~~My Commission Expires July 31, 2018~~

## ASSIGNMENT

WHEREAS, We,

Ishanu Chattopadhyay, a citizen of India, residing at 87 Uptown Rd., Apt. D109, Ithaca, NY 14850;

Hod Lipson, a U.S. citizen, residing at 641 Highland Road, Ithaca, NY 14850.

have invented certain new and useful improvements in **SYSTEMS AND METHODS FOR ABDUCTIVE LEARNING OF QUANTIZED STOCHASTIC PROCESSES** for which an application for Letters Patent in the United States was filed as U.S. Serial No. 14/775,856 on **September 14, 2015**; claiming priority to International Application No. PCT/US2014/029333 on **March 14, 2014**; claiming priority to U.S. Provisional Application No. 61/791,171 on **March 15, 2013**.

AND WHEREAS, **Cornell University**, with its principal place of business at the **Center for Technology Licensing ("CTL") at Cornell University, 395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA**, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Cornell University**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Cornell University**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Witness Signature Option

Ishanu Chattopadhyay  
Ishanu Chattopadhyay

09/26/2016  
Date

[Signature]  
First Witness Signature

09/26/2016  
Date

Andrey Rzhetsky  
First Witness Printed Name

\_\_\_\_\_  
Second Witness Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Second Witness Printed Name

Notary Option

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2015.

STATE OF \_\_\_\_\_;  
COUNTY OF \_\_\_\_\_;

\_\_\_\_\_  
Ishanu Chattopadhyay

This \_\_\_\_\_ day of \_\_\_\_\_, 2015, before me personally came the  
above-named \_\_\_\_\_, to me personally known as the individual  
who executed the same of his/her own free will for the purposes therein set forth.

\_\_\_\_\_  
Notary Public

Commission expires on \_\_\_\_\_.